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[The Recovery Box: Using Fast Recovery to Provide High.. - Baker, Sullivan \(1992\)](#) (Correct) (24 citations)

the system first tries to recover quickly from **backup** data that it stored in main memory during  
 After establishing the connection, each client must **query** the database to find out if its last transaction  
 used by both the operating system and application **programs**. The recovery box has been used for fast  
[gunpowder.stanford.edu/~mgbaker/publications/recovbox.ps](http://gunpowder.stanford.edu/~mgbaker/publications/recovbox.ps)

[Object-Oriented Design of Main-Memory DBMS for Real-Time ... - Cha, Park, Lee, Song.. \(1995\)](#) (Correct)  
 (3 citations)

To Achieve High Perfor- Storage System Interface **Backup** Database DbA Tool Interactive Rt-Sql Rt-Sql  
 M 2 RTSS, RT-SQL engine implements the relational **query** processing module. RT-SQL is an extended version  
 M RTSS 2 Stable Log Volume 2 DBA User Application **Program** Application **Program** Application **Program** CAP  
[kdb.snu.ac.kr/~jhpark/PSFiles/rtcsa95.ps](http://kdb.snu.ac.kr/~jhpark/PSFiles/rtcsa95.ps)

[A Highly Available, Scalable ITV System - Nelson, Linton, Owicki \(1995\)](#) (Correct) (4 citations)

unless the primary fails. At that time, one of the **backup** replicas becomes primary and continues to provide  
 over. This **backup** discovers the cluster state by **querying** each SSC to determine what services it is  
 of remote procedure call and object-oriented **programming**. Our distributed objects resemble those of  
[www.star-lab.com/owicki/papers/itv.ps](http://www.star-lab.com/owicki/papers/itv.ps)

[Scaling Reinforcement Learning Algorithms by Learning.. - Satinder Singh](#) (Correct) (14 citations)

by all DPbased learning algorithms is that of a "**backup**"A **backup** uses a state transition, whether  
 reinforcement learning (RL) algorithms and dynamic **programming** algorithms has fueled research on RL within  
 framework afforded by the connection to dynamic **programming** to discuss the scaling issues faced by RL  
[ftp.cs.colorado.edu/users/baveja/Papers/ML92.ps.gz](http://ftp.cs.colorado.edu/users/baveja/Papers/ML92.ps.gz)

[On Fault Recovery Priority in ATM Networks - Jæger, Tipper](#) (Correct)

been proposed, ranging from preselected disjoint **backup** routes to dynamic route selection. Suggestions  
 47 71 21 40 00 David Tipper y Telecommunications **Program** Department of Information Science and  
 a common set of simplified assumptions. A simple C **program** model of the network was developed. The routing  
[violet.tele.pitt.edu/pub/Telecom\\_Faculty/Tipper/fcc\\_v3.ps](http://violet.tele.pitt.edu/pub/Telecom_Faculty/Tipper/fcc_v3.ps)

[Incremental Recovery In Main Memory Database Systems - Levy, Silberschatz \(1992\)](#) (Correct) (25 citations)

for propagating updates from main memory to the **backup** database on disk is also provided. Here the  
[ftp.cs.utexas.edu/pub/avi/UT-CS-TR-92-01.PS.Z](http://ftp.cs.utexas.edu/pub/avi/UT-CS-TR-92-01.PS.Z)

[Design, Testing, and Evaluation Techniques for Software Reliability ... - Lyu](#) (Correct)

Op. System Hardware SystemsSoftware Application **backup** Op. System Hardware Systems Software watchd  
 failures have impaired several high-visibility **programs** worldwide. These critical incidents either  
 library that can be used in application **programs** to specify and checkpoint critical data, recover  
[www.cse.cuhk.edu.hk/~lyu/postscript/euro98.ps](http://www.cse.cuhk.edu.hk/~lyu/postscript/euro98.ps)

[Behavioral-Level Synthesis of Heterogeneous BISRs.. - Guerra, Potkonjak.. \(1993\)](#) (Correct) (1 citation)

been based on replacing a failed module with a **backup** of the same type. We present new heterogeneous  
 and 3) design of Application Specific **Programmable** Processors (ASPPs) processors designed  
 increase memory production profitability. **Programmable** logic arrays are another class of  
[ftp.cs.ucia.edu/tech-report/96-reports/960005.ps.Z](http://ftp.cs.ucia.edu/tech-report/96-reports/960005.ps.Z)

[Learning Evaluation Functions for Large Acyclic Domains - Boyan, Moore \(1996\)](#) (Correct) (13 citations)

assignment statement (this is called a "one-step **backup**"at each state in parallel. If the lookup table  
 an accurate value function is the key to dynamic-**programming**-based algorithms for optimal sequential  
 of the game. Some MDP-solving methods (e.g. linear **programming**) can no longer be used for this class of

[www.cs.cmu.edu/afs/cs/project/reinforcement/papers/boyan.acyclic.ps](http://www.cs.cmu.edu/afs/cs/project/reinforcement/papers/boyan.acyclic.ps)

Coordinated Resource Management in a Replicated Object.. - Ghemawat, Gruber.. (Correct)

where the witness has taken over the task of the **backup**. Committing Each replica has an in-memory log of  
[www-psrg.lcs.mit.edu/~james/coord\\_ros/draft.ps](http://www-psrg.lcs.mit.edu/~james/coord_ros/draft.ps)

Intelligent CAL - John Gorman (Correct)

10 to 99 ffl Remedial frames which directly **backup** mainline frames are numbered from 100 to 999, display area where the material is presented, and a **query** area where the student is questioned on the of the material to be taught, and a computer **program** to teach it. It allows modular changes or  
[136.201.8.7/techrpts/ul-90-07.ps](http://136.201.8.7/techrpts/ul-90-07.ps)

Fault-Tolerant Wormhole Routing in Tori - Suresh Chalasani (1994) (Correct) (5 citations)

could cause livelocks. To avoid livelocks, a "**backup**" nonadaptive routing algorithm is often used to  
[ringer.cs.utsa.edu/faculty/boppana/papers/ics94.ps](http://ringer.cs.utsa.edu/faculty/boppana/papers/ics94.ps)

Duplication of Coding Segments in Genetic Programming - Thomas Haynes (1996) (Correct) (8 citations)

segments, we strip away their protective **backup** feature. We then duplicate the coding segments in 1 Duplication of Coding Segments in Genetic Programming Thomas Haynes The University of Tulsa 600 destructive crossover. We consider a genetic **programming** system where non-coding segments can be  
[euler.mcs.utlusa.edu/~haynes/duplicate.ps](http://euler.mcs.utlusa.edu/~haynes/duplicate.ps)

Parallel Controlled Conspiracy Number Search - Ulf Lorenz (1995) (Correct)

of v n are determined by a quiescence search. ffl **Backup**: The results of an expansion have to be factive,waitingg, line is the value of the system **program** counter, result and g 1 g x are the which are connected as a two-dimensional grid. The **program** is written in C, so be were able to compile it  
[www.uni-paderborn.de/fachbereich/AG/monien/PUBLICATIONS/POSTSCRIPTS/LO\\_ccns2.ps.Z](http://www.uni-paderborn.de/fachbereich/AG/monien/PUBLICATIONS/POSTSCRIPTS/LO_ccns2.ps.Z)

A Davis-Putnam Program and Its Application to Finite.. - William Mccune (1994) (Correct) (46 citations)

experiment n. See Section 2.5. B file. **Backup** assignments to a file. b n. **Backup** assignments Argonne, IL 60439 ANL/MCS-TM-194 A Davis-Putnam Program and Its Application to Finite First-Order Model : 3 2 The First-Order Model-Searching Program 4 2.1 Additional Constraints :  
[info.mcs.anl.gov/pub/tech\\_reports/reports/TM194.ps.Z](http://info.mcs.anl.gov/pub/tech_reports/reports/TM194.ps.Z)

Fault-Tolerant Routing with Non-Adaptive Wormhole Algorithms .. - Rajendra Boppana (1994) (Correct) (4 citations)

used, livelocks may arise. To avoid livelocks, a **backup** nonadaptive routing algorithm is often used. For simulate both algorithms in the same simulation **program**. 5 Concluding remarks We have presented be easily implemented by making the routing logic **programmable**. Finally, each node should have additional  
[ringer.cs.utsa.edu/faculty/boppana/papers/Sc94.ps](http://ringer.cs.utsa.edu/faculty/boppana/papers/Sc94.ps)

Failure Recovery Algorithms for Multi-Disk Multimedia Servers - Shenoy, Vin (Correct)

(2) interleaved declustering uniformly distributes **backup** blocks of a disk amongst all the remaining disks, Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS-V) Conference on Architectural Support for Programming Languages and Operating Systems, pages  
[ftp.cs.utexas.edu/pub/techreports/tr96-06.ps.Z](http://ftp.cs.utexas.edu/pub/techreports/tr96-06.ps.Z)

Recovery in the Calypso File System - Devarakonda, Kish, Mohindra (1996) (Correct) (1 citation)

the clients to reconstruct the server state on a **backup** node if disks are multi-ported or on the rebooted  
[www.research.ibm.com/webvideo/calypso.ps](http://www.research.ibm.com/webvideo/calypso.ps)

Final Evaluation Report Computer Associates International, Inc. ... - Savage Road (Correct)

: 206 6.8 **Backup** and Restore :  
 when a user attempts to cancel a submitted job or **query** its status. 6.3.3.5.5 Messages When a message is :33 3.2.8 **Program** Calls :  
[www.radium.ncsc.mil/tpep/epl/entries/.../library/fers/CSC-FER-98-001.ps.gz](http://www.radium.ncsc.mil/tpep/epl/entries/.../library/fers/CSC-FER-98-001.ps.gz)

Failure Recovery Algorithms for Multimedia servers - Shenoy, Vin (1999) (Correct) (2 citations)

(2) interleaved declustering uniformly distributes **backup** blocks of a disk amongst all the remaining Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS-V) Conference on Architectural Support for Programming Languages and Operating Systems, pages

[www.cs.utexas.edu/users/dmcl/projects/symphony/papers/ps/MMSJ-FaultTolerance.ps](http://www.cs.utexas.edu/users/dmcl/projects/symphony/papers/ps/MMSJ-FaultTolerance.ps)

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[Orchestration Services For Continuous Media.. - Blair, Campbell.. \(1992\)](#) (Correct)

3 i) the ability to start related continuous media **data** flows precisely together. If the relationship is systems to support distributed multimedia **application** which exploit continuous media (e.g. audio and to place responsibility for these requirements to **application** level software, but as such requirements will [ftp.comp.lancs.ac.uk/pub/mpg/MPG-92-54.ps.Z](#)

[Higher-Order Colored Unification: A Linguistic Application - Gardent, Kohlhase, Konrad \(1997\)](#) (Correct)

The equations and implications given in the **data** base are also coloured according to the same Higher-Order Coloured Unification: a linguistic **application** Claire Gardent Michael Kohlhase, Karsten of the added expressivity in a linguistic **application** where features are used to cleanly separate [www.ags.uni-sb.de/~konrad/papers/submit2.ps.gz](#)

[Formal Specification Of A Legal Ontology - Visser, Bench-Capon \(1996\)](#) (Correct) (2 citations)

Design, Seventh International Workshop on Database and Expert System **Applications**, DEXA'96, IEEE source of the norm)4) the scope (the range of **application** of the norm)5) the conditions of **application** of the norm)5) the conditions of **application** (the circumstances under which the norm is [www.csc.liv.ac.uk/~pepijn/Articles/jurix96a.ps.Z](#)

[Systems Performance Measurement on PCI Pamette - Laurent Moll \(1997\)](#) (Correct) (8 citations)

better understand the rest of the article: fl All **data** transfers are broken into transactions. Each maximum and predictable figures in the running **application**. 1 Introduction PCI Pamette [1] is a to work in harmony with the host processor. **Applications** seek to leverage the maximum from the presence [ftp.digital.com/pub/DEC/SRC/publications/shand/fccm97.ps](#)

[Experiences with User-configurable, Location-aware Scheduling - Heidemann, Shah \(1998\)](#) (Correct)

examples. Again, these examples may be specific (**backup** my computer when connected by a high-speed example of an answer to the question raised by the **Dataman** project at Rutgers: what if location were a actions are only possible for specific **applications** or with special infrastructure. This paper [usc.edu/pub/csinfo/tech-reports/papers/98-675.ps.Z](#)

[Robust Value Function Approximation by Working Backwards - Boyan, Moore \(1995\)](#) (Correct) (1 citation)

assignment statement (this is called a "one-step **backup**" at each state in parallel. If the lookup table (planning, DAG-SP, Grassfire algorithm, endgame **databases**) so it is natural to ask whether it can this feature space. Perhaps the most successful **application** of VI-based algorithms with function [www.cs.cmu.edu/afs/cs.cmu.edu/misc/mosaic/common/omega/Web/Groups/reinforcement/ml95/proc/boyan.ps](#)

[ESO-MIDAS Request Form - This Is](#) (Correct)

for new user agreements t.b.d. 1600 bpi VAX/VMS **backup** 6250 bpi VAX/VMS **backup** 1600 bpi TAR format 6250

for the purpose of Image Processing of Astronomical **Data**. 2. for new user agreements t.b.d. 1600 bpi the editor. In particular, authors of ESO-MIDAS **application** software that would be of general interest for [ftp.hq.eso.org/pub/midaspub/courier/cour93jul.ps.Z](#)

[Automatic Service Availability Management in Asynchronous.. - Cristian, Mishra \(1994\)](#) (Correct) (10 citations)

and that all services are provided by primary/**backup** server pairs instead of more general server [ftp.cs.ucsd.edu/pub/team/asavailmgr.ps.Z](#)

[An Architecture and Object Model for Distributed.. - Stankovic, Son \(1998\)](#) (Correct) (7 citations)

a deadline, full quality QoS display, a primary/**backup** fault tolerance requirement, and a confidential Model for Distributed Object-Oriented Real-Time **Databases** John A. Stankovic Sang H. Son Department of creating a distributed **database** where many **applications** require real-time access to both temporally

[www.cs.virginia.edu/~son/publications/bom.ps](http://www.cs.virginia.edu/~son/publications/bom.ps)

Implementing Highly-Available WWW Servers based on... - Baldoni, Bonamoneta... (1999) (Correct)  
Services, Passive Object Replication, Primary-**Backup** Approach. Authors address: Dipartimento di company that sells on WWW. The user sends the form data and gets back the transaction acknowledgment from <ftp.dis.uniroma1.it/pub/COMPARCH/baldoni/rap-14-98.ps>

BeeHive: Global Multimedia Database Support for... - Stankovic, Son... (1997) (Correct) (9 citations)  
a deadline, full quality QoS display, a primary /**backup** fault tolerance requirement, and a BeeHive: Global Multimedia Database Support for Dependable, Real-Time  
[www.cs.virginia.edu/~stankovic/psfiles/beepaper\\_artd.ps](http://www.cs.virginia.edu/~stankovic/psfiles/beepaper_artd.ps)

Correlated Action Effects in Decision Theoretic Regression - Boutilier (1997) (Correct) (3 citations)  
goal regression [5]More specifically, a Bellman **backup** [2] for a specific action a is essentially a  
[www.cs.ubc.ca/spider/cebly/Papers/uai97b.ps.gz](http://www.cs.ubc.ca/spider/cebly/Papers/uai97b.ps.gz)

Customization and Composition of Distributed Objects: Policy... - Astley (1999) (Correct) (11 citations)  
1) each server interaction is duplicated at the **backup**, 2) a state snapshot is periodically sent to the . 48 xi 3.8 A Bug-Tracking Database: An HTTP interface module provides access to advantages. In particular, by separating **application** code from the protocols used for interaction,  
[osl.cs.uiuc.edu/~m-astle/thesis.ps.gz](http://osl.cs.uiuc.edu/~m-astle/thesis.ps.gz)

Object-Oriented Design of Main-Memory DBMS for Real-Time ... - Cha, Park, Lee, Song... (1995) (Correct) (3 citations)  
To Achieve High Perfor- Storage System Interface **Backup** Database DbA Tool Interactive Rt-Sql Rt-Sql and virtual reality, require real-time access to **database**. Main-memory DBMS, which becomes feasible with Design of Main-Memory DBMS for Real-Time **Applications** S. K. Cha, B. D. Park, S. J. Lee, S. H. Song,  
[kdb.snu.ac.kr/~jhpark/PSFiles/rtcsa95.ps](http://kdb.snu.ac.kr/~jhpark/PSFiles/rtcsa95.ps)

A Highly Available, Scalable ITV System - Nelson, Linton, Owicki (1995) (Correct) (4 citations)  
unless the primary fails. At that time, one of the **backup** replicas becomes primary and continues to provide service for validating client requests, a **database**, managers for individual servers and server available and scalable system services and **applications**. Our mechanisms rely on an underlying  
[www.star-lab.com/owicki/papers/itv.ps](http://www.star-lab.com/owicki/papers/itv.ps)

Scaling Reinforcement Learning Algorithms by Learning... - Satinder Singh (Correct) (14 citations)  
by all DPbased learning algorithms is that of a "**backup**"A **backup** uses a state transition, whether to scale well to complex tasks has limited their **application** to simple tasks (but see Tesauro 1992 for an an objective function. A substantial number of **applications** of RL have dealt with Markovian Decision  
[ftp.cs.colorado.edu/users/baveja/Papers/ML92.ps.gz](http://ftp.cs.colorado.edu/users/baveja/Papers/ML92.ps.gz)

Incremental Recovery In Main Memory Database Systems - Levy, Silberschatz (1992) (Correct) (25 citations)  
for propagating updates from main memory to the **backup** database on disk is also provided. Here the Incremental Recovery In Main Memory Database Systems Eliezer Levy And Avi Silberschatz  
[ftp.cs.utexas.edu/pub/avi/UT-CS-TR-92-01.PS.Z](http://ftp.cs.utexas.edu/pub/avi/UT-CS-TR-92-01.PS.Z)

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[Larchant-RDOSS: a Distributed Shared Persistent Memory and... - Shapiro, Ferreira \(1995\)](#) (Correct) (10 citations)

Memory management is automatic: caching of **data** and of locks, coherence, collecting objects  
 Stable versions of bunches are stored on disk by **Backup Servers**. Together, the Cache Servers and the  
 synchronization between the collector and the **application** processes. This results in a simple  
[retina.inesc.pt/people/pjpf-home/wdag95.ps](http://retina.inesc.pt/people/pjpf-home/wdag95.ps)

[An Architecture for Object Replication in Distributed Systems - Beedubail, Pooch \(1996\)](#) (Correct) (1 citation)  
 broadcasts can be used to maintain replicated **data** (active replication) In [7] Olsen et.al. describe  
 one server as the primary and all others as **backups**. Clients make requests by sending messages only  
 objects are encapsulated in a manager object. An **application** object inherits these functionalities from the  
[www.cs.tamu.edu/research/phoenix/techreports/TR\\_96-006.ps.Z](http://www.cs.tamu.edu/research/phoenix/techreports/TR_96-006.ps.Z)

[DLs for DLs: Description Logics for Digital Libraries - Welty \(1998\)](#) (Correct) (2 citations)  
 for card catalog **data**, traditionally known as **meta-data**, including a browsable and queryable  
 served to assist in ensuring the integrity of the **data**. In addition, the recent release of XML has made us  
[www.cs.vassar.edu/faculty/welty/papers/DL98.ps](http://www.cs.vassar.edu/faculty/welty/papers/DL98.ps)

[SANDBOX: Accessing Scientific Data through Experimentation - Johnson, Fotouhi](#) (Correct)  
 runs out of screen real-estate, and the graphical **metaphor** quickly becomes cumbersome for complicated  
 SANDBOX: Accessing Scientific **Data** through Experimentation Andrew Johnson Electronic  
[www.eecs.uic.edu/~ajohnson/papers/interactions.ps.gz](http://www.eecs.uic.edu/~ajohnson/papers/interactions.ps.gz)

[Symphony: An Integrated Multimedia File System - Prashant Shenoy \(1997\)](#) (Correct) (27 citations)  
 for placement, fault tolerance, caching, and **meta data** management employed by the file system. We  
 supports the storage and retrieval of multiple **data** types. In this paper, we first discuss various  
[www.cs.utexas.edu/users/dmcl/projects/symphony/papers/ps/MMCN98-Symphony.ps](http://www.cs.utexas.edu/users/dmcl/projects/symphony/papers/ps/MMCN98-Symphony.ps)

[Automatic Classification of Semantic Concepts in View... - Ellmer, Huemer, Merkl... \(1996\)](#) (Correct)  
 of this phase is to transform semantic meaningful **meta data** into a representation understandable by a  
 Abstract: The design of large **database** systems often is done by a large number of  
[www.ifs.tuwien.ac.at/ifs/research/pub\\_ps/eil\\_dexa96.ps.gz](http://www.ifs.tuwien.ac.at/ifs/research/pub_ps/eil_dexa96.ps.gz)

[Evolving Databases: An Application to Electronic Commerce - Fordham, Abiteboul, Yesha \(1997\)](#) (Correct)  
 (2 citations)  
 components. DFs will therefore constitute the EDB **meta-data** for the Bradley Fordham is with the National  
 International **Database Engineering And Applications** Symposium, 1997  
[www-rocq.inria.fr/~abitebou/pub/negoce.ps](http://www-rocq.inria.fr/~abitebou/pub/negoce.ps)

[Multidimensional Exploration of Online Linguistic Field Data - Steven Bird \(1999\)](#) (Correct)  
 linguistic fieldwork deals with three main kinds of **meta-data**: field notes, descriptive reports and  
 Exploration of Online Linguistic Field **Data** Steven Bird University of Pennsylvania Abstract  
[www ldc.upenn.edu/sb/fieldwork/draft.ps](http://www ldc.upenn.edu/sb/fieldwork/draft.ps)

[Where do Time Constraints Come From and Where do They Go? - Ramamritham \(1996\)](#) (Correct) (9 citations)  
 pertaining to the controlled system as well as the **meta-data** about the controlling system. This work was  
 Paper -To appear in International Journal of **Database Management** Abstract While a lot of work has  
[www-ccs.cs.umass.edu/~krithi/rtdb/jdbm.ps](http://www-ccs.cs.umass.edu/~krithi/rtdb/jdbm.ps)

[WEB-supported Engineering of Computer-based Systems - Ditzel, Kleinjohann... \(1998\)](#) (Correct)  
 )efficient, precise searches Distribution of **meta-data** (e.g. indexes) fault tolerant, efficient A

domains and support of the exchange of CAD-data. Other efforts of the GEN initiative cope with the services to structure documents due to specific **application** domains and support of the exchange of [www.uni-paderborn.de/sfb376/projects/b1/PS/DiKleRadRamSteStrTac98.ps.gz](http://www.uni-paderborn.de/sfb376/projects/b1/PS/DiKleRadRamSteStrTac98.ps.gz)

Scientific Database Management - French, Jones, Pfaltz (1990) (Correct) (11 citations)  
in future **database** development projects. So called "**meta-data**" plays a crucial role in this entire process, of the Invitational NSF Workshop on Scientific Database Management Charlottesville, VA March 1990 <ftp://cs.virginia.edu/pub/techreports/CS-90-22.ps.Z>

File System Logging Versus Clustering: A Performance.. - Seltzer, Smith.. (1995) (Correct) (46 citations)  
in performance claimed for LFS applies only to **meta-data** intensive activities, specifically the in performance claimed for LFS applies only to **meta-data** intensive activities, specifically the creation of [www.eecs.harvard.edu/~margo/papers/./usenix.195/usenix.195.ps.gz](http://www.eecs.harvard.edu/~margo/papers/./usenix.195/usenix.195.ps.gz)

Design Issues of a Cooperative Cache with no Coherence Problems - Labarta (1997) (Correct) (1 citation)  
distributed among the disks and how this **data** and **meta-data** are managed by the servers before they get to to allow good cooperation and still keep the **data** coherent. Second, we also need to find a way to run in any node and share the node with user **applications** without interfering too much in their <ftp://ac.upc.es/pub/reports/CEPBA/1997/UPC-CEPBA-1997-24.ps.Z>

Processing Satellite Images on Tertiary Storage: A Study of the .. - Jiebing Yu (1996) (Correct) (2 citations)  
this order can be determined by examining the **meta data** associated with the **data** set. In a companion known as EOSDIS (for Earth Observing System, **Data** Information System) When fully deployed, these While this approach will work well for certain **applications**, when only a portion of each image is needed [www.cs.wisc.edu/~jiebing/tile.ps](http://www.cs.wisc.edu/~jiebing/tile.ps)

A Parallel I/O System for High-Performance Distributed Computing - Moyer, Sunderam (1994) (Correct)  
opens a file the PSC is contacted to obtain file **meta-data** and to ensure that the requested file access only that mechanisms exist to reliably transport **data** between cooperating machines, and to access **data** computing environment. PIOUS supports parallel **application** development by providing coordinated access to <ftp://mathcs.emory.edu/pub/cstr/CSTR940101.ps>

Building a Multi-Discipline Digital Library Through Extending .. - Michael Nelson (1997) (Correct) (1 citation)  
domains can register their existence with a **meta-server**. 3.0 Overview of Dienst The Dienst collections using the CNRI Handle system [4] **Meta-data** for objects is stored in the RFC-1807 format [5] [www.cs.odu.edu/~nelso\\_m/dienst/di97-poster.ps](http://www.cs.odu.edu/~nelso_m/dienst/di97-poster.ps)

Recovery in the Calypso File System - Devarakonda, Kish, Mohindra (1996) (Correct) (1 citation)  
if the workload modifies a large amount of file **meta-data** shortly before a failure, the log redo time that open files remain open, client modified **data** is saved, and in-flight operations are properly the clients to reconstruct the server state on a **backup** node if disks are multi-ported or on the rebooted [www.research.ibm.com/webvideo/calypso.ps](http://www.research.ibm.com/webvideo/calypso.ps)

A Proposal For A User-Level, Message Passing Interface In.. - Dongarra, Hempel, al. (1993) (Correct) (25 citations)  
abstractions, for example, Linda [4, 10] **MetaMP** [16] or Shared Objects [1, 14] would lie above environment featuring collective communication and **data** distribution transformations. The standard [www.epm.ornl.gov/~walker/mpi/papers/mpi1.ps.Z](http://www.epm.ornl.gov/~walker/mpi/papers/mpi1.ps.Z)

Coordination and Tailorability Issues in the design of a.. - Domingos, Martins (1997) (Correct)  
object, that is used to maintain relevant **meta-information** a log object that deals with collaborative processes **x#volatile** vs. persistent **data** objects shared in the context of **applications** development and operation of scalable groupware **applications** section 4 maps the recognized tailorability [asc.di.fct.unl.pt/~hj/papers/97/group97-tailorability.ps.gz](http://asc.di.fct.unl.pt/~hj/papers/97/group97-tailorability.ps.gz)

Obstacles for a Component-Based Software Industry - Kristensen (Correct)  
an object-oriented language even if object-oriented **metaphors** are used. Object-oriented programming so that fragmentation and extraneous copying of **data** between layers can be avoided. This means that, is not easy to determine up front unless all **applications** which will use the component are identified [www.hp.co.uk/people/ak/doc/components.ps](http://www.hp.co.uk/people/ak/doc/components.ps)

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[Developing Message-Passing Applications on MPICH under Ensemble - Cotronis \(1998\)](#) (Correct) (1 citation)  
 Developing Message-Passing **Applications** on MPICH under Ensemble Yiannis Cotronis  
 methodology for message-passing **applications**, called Ensemble applied to MPI. **Applications**  
**applications**, called Ensemble applied to MPI. **Applications** are implemented by reusable executables having  
[www.di.uoa.gr/~ensemble/PostScript/pvmpi98.ps](http://www.di.uoa.gr/~ensemble/PostScript/pvmpi98.ps)

[Design Level Support for Parallel and Distributed Applications - Polman, van Steen \(1996\)](#) (Correct)  
 communication model. Communication through shared **data** [5] has demonstrated to be a relatively easy model  
 Level Support for Parallel and Distributed **Applications** Mark Polman Erasmus University, Rotterdam  
 as the target platform for high-performance **applications**, has again emphasized the need for support  
[www.cs.vu.nl/~steen/publications/hpcn96.ps.Z](http://www.cs.vu.nl/~steen/publications/hpcn96.ps.Z)

[Compiler and Run-Time Support for Semi-Structured.. - Chrisochoides.. \(1997\)](#) (Correct) (3 citations)  
 organized regular computations on the underlying **data**. The underlying **data** is specified as grid  
 and run-time support for semi-structured **applications** Nikos Chrisochoides, Induprakas Kodukula, and  
 refinement (AMR) is a very important scientific **application**. Several libraries implementing specific  
[www.cse.nd.edu/~nikos/homepage/jics97.ps](http://www.cse.nd.edu/~nikos/homepage/jics97.ps)

[Handling Intelligent and Active Data by Object Knowledge.. - Boukebeche Cot](#) (Correct)  
 Information (JCI) Handling Intelligent and Active **Data** by Object Knowledge Bases and Object Databases.  
[www.math-info.univ-paris5.fr/liap5-lab/boukebeche/articles/Ftp/ficci95.ps](http://www.math-info.univ-paris5.fr/liap5-lab/boukebeche/articles/Ftp/ficci95.ps)

[North American ISDN Users' Forum Application Software Interface .. - Part Ms-Dos](#) (Correct)  
 DGM&S Chris Nix IBM Stephen Rogers Electronic **Data** Systems Chris Schmandt MIT Media Lab Ben Stoltz  
 North American ISDN Users' Forum **Application** Software Interface (ASI) Part 2: MS-DOS Access  
 (Version 1) Approved: June 5, 1992 NIUF 404-92 **Application** Software Interface Expert Working Group ISDN  
[isdn.ncsl.nist.gov/niuf/404-92-2.ps](http://isdn.ncsl.nist.gov/niuf/404-92-2.ps)

[Patterns for Reducing Locking Overhead in Multi-threaded.. - Harrison, Schmidt \(1996\)](#) (Correct)  
 one logical access point to retrieve thread local **data** without incurring locking overhead for each access.  
 1 Introduction In theory, multi-threading an **application** can improve performance since multiple  
 simultaneously. In practice, multi-threaded **applications** often perform no better, or even worse, than  
[oop.rosweb.ru/cpp/cpptoy/TSS-pattern.ps.gz](http://oop.rosweb.ru/cpp/cpptoy/TSS-pattern.ps.gz)

[Designing Parallel Programs by the Graphical Language GRAPNEL - Eter Kacsuk \(1996\)](#) (Correct)  
 (15 citations)  
 are applied where they are more appropriate (e.g. **data** declarations and definitions, code segments  
 to be the most common approach to implementing **applications** on distributed memory concurrent computers for  
 simple [11] developing parallel distributed **applications** instead of single-processing ones raises new  
[www.kiki.hu/~mszkihp/info/ParComp/papers/EuroMicroPSE-grapnel.ps.Z](http://www.kiki.hu/~mszkihp/info/ParComp/papers/EuroMicroPSE-grapnel.ps.Z)

[Using Hypermedia And Reconfigurable Software Assembly .. - Gertz, Stewart.. \(1994\)](#) (Correct) (3 citations)  
 real-time software modules are stored in object **databases** at various sites on the network. By using  
 possible to create virtual laboratories wherein **applications** for a sensor-based system located at a  
 software to assemble reusable code into **applications**. Onika can retrieve and use software modules  
[www.cs.cmu.edu/afs/cs/project/chimera/www/publications/mwgertz.isram94.ps.Z](http://www.cs.cmu.edu/afs/cs/project/chimera/www/publications/mwgertz.isram94.ps.Z)

[Inference and Hierarchical Modeling in the Social Sciences - Draper \(1995\)](#) (Correct) (2 citations)  
 education policy, inferential limitations, **meta-analysis**, multilevel models, school effectiveness  
 strength supported by typical social science **data**-gathering methods, and call for a greater degree  
[www.bath.ac.uk/~masdd/Papers/ihmss.ps](http://www.bath.ac.uk/~masdd/Papers/ihmss.ps)

FREE JAZZ: A User-Level Real-Time Threads Package Designed for.. - Kramp (1998) (Correct)  
 design methodology, providing a well-devised **meta** interface particularly with respect to soft  
 The pitfalls of concurrently accessed shared **data**, however, remain nevertheless. Threads still must  
 system is assumed to be targeting a specic **application** domain and therefore hopefully can. Trying to  
[www.uni-kl.de/AG-Nehmer/Projekte/Squirrel/postscript/tr-sfb501-9-98.ps.gz](http://www.uni-kl.de/AG-Nehmer/Projekte/Squirrel/postscript/tr-sfb501-9-98.ps.gz)

A Recovery Mechanism for Shells - Pehlivan, Holyer (1998) (Correct) (1 citation)  
 explicitly deleted, together with various ad hoc **backup** mechanisms provided by individual **applications**.  
 the file system. We are not concerned with **data** loss through hardware failure, for example, nor  
 is an essential component of most interactive **applications**. In current operating system shells, whether  
[www.cs.bris.ac.uk/~ian/Functional/undo.ps](http://www.cs.bris.ac.uk/~ian/Functional/undo.ps)

The NILE Data Model - Ogg, Ricciardi (1996) (Correct)  
 copied, the **Application** Manager must get the new **meta-data**. **Application**: how the **data** appear to the  
 The NILE **Data** Model a Michael Ogg b and Aleta Ricciardi  
 the **Data** Model, the architecture[4]and the **application** environment. The first Nile implementation[5]  
[www.nile.utexas.edu/NC/CHEP95/paper88.ps](http://www.nile.utexas.edu/NC/CHEP95/paper88.ps)

Knowledge From the Inside and Outside in Participative.. - Kaasbøll (1995) (Correct)  
 Larsen and K. Plunkett (eds.Computers, Mind and Metaphors, Erlbaum. Barki, H. and Hartwick, J. 1989)  
 of, for example, the flow and storage of **data**. The following case study is extracted from a  
 for information systems design and purchase of **application** software, and for detailed design of  
[ftp.ifi.uio.no/www\\_docs/publications/preprints/JKaasboll-3.ps](http://ftp.ifi.uio.no/www_docs/publications/preprints/JKaasboll-3.ps)

Behaviour Specification in Database Interoperation - Vermeer, Apers (1997) (Correct) (2 citations)  
 Behaviour Specification in **Database** Interoperation Mark W.W. Vermeer and Peter  
 that component **databases** may have implemented **application**-specific methods with their local objects. In  
 It would be attractive to offer global **applications** a global method interface with comparable  
[wwwis.cs.utwente.nl:8080/isdoc/confpaper/vermeer.caise97.accepted.ps.gz](http://wwwis.cs.utwente.nl:8080/isdoc/confpaper/vermeer.caise97.accepted.ps.gz)

Nonequilibrium Radiative Heating Prediction Method for Aeroassist... - Hartung (1991) (Correct)  
 methods, as well as to ground- and flight-measured **data**. Reasonable agreement is found in all cases. A  
 :71 5.6 Patchwork Grid Resulting from **Application** of Subgrid Algorithm Along Each Normal Line :  
 be adequate for some of the vehicle shapes and **applications** under consideration. It will certainly not  
[techreports.larc.nasa.gov/pub/techreports/larc/91/phd-91-hartung.ps.Z](http://techreports.larc.nasa.gov/pub/techreports/larc/91/phd-91-hartung.ps.Z)

Efficient Organization of Control Structures in Distributed... - Hogen, Loogen (1994) (Correct) (1 citation)  
 is only used for the representation of dynamic **data** structures. For parallel implementations, which  
 is given in Fig. 1. Function symbols in **applications** may be basic operation symbols OE 2\Omega  
 are used as rewrite rules for the evaluation of **applications** of defined function symbols. In our example  
[www-i2.informatik.rwth-aachen.de/OldStaff/hogen/PUBLICATIONS/cc94.ps.gz](http://www-i2.informatik.rwth-aachen.de/OldStaff/hogen/PUBLICATIONS/cc94.ps.gz)

The Homerun Hitting of Mike Schmidt - Albert (1998) (Correct)  
 issue of consistency is investigated by exploring a **dataset** which lists the date for each homerun Schmidt  
[www-math.bgsu.edu/~albert/papers/schmidt.ps](http://www-math.bgsu.edu/~albert/papers/schmidt.ps)

A Static Parameter based Performance Prediction Tool for.. - Fahringer, Zima (1993) (Correct) (68 citations)  
 This includes work distribution, the number of **data** transfers, the amount of **data** transferred,  
 -in contrast to a widely-held belief -the **application** of a program transformation may affect the  
 Report 182055, Institute for Computer **Applications** in Science and Engineering, NASA Langley  
[www.par.univie.ac.at/~tf/papers/p3t/japan.ps](http://www.par.univie.ac.at/~tf/papers/p3t/japan.ps)

Preliminary Broadcast News Benchmark Tests - David Pallett (Correct)  
 to seven pre-defined subsets of similarlyannotated **data**. For the system with the lowest measured word  
[www.nist.gov/speech/proc/darpa97/ps/pallett1.ps](http://www.nist.gov/speech/proc/darpa97/ps/pallett1.ps)

Empirical Study to Test the Independence of Different... - Michaelis, Strube (1995) (Correct) (1 citation)  
 acoustic voice parameters on a large voice **database** Dirk Michaelis and Hans Werner Strube Drittes  
[www.physik3.gwdg.de/~matth/Postscript-gz/Madrid95.PS.gz](http://www.physik3.gwdg.de/~matth/Postscript-gz/Madrid95.PS.gz)

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[NoDoSE - A tool for Semi-Automatically Extracting Structured and ... - Adelberg \(1998\)](#) (Correct) (57 citations)  
might be reports generated by a weekly file **backup program** for the past year. Using a GUI, the user  
[www.cs.nwu.edu/~adelberg/papers/nodose.ps](http://www.cs.nwu.edu/~adelberg/papers/nodose.ps)

[Performance of Cache Coherence in Stackable Filing - John Heidemann \(1995\)](#) (Correct) (21 citations)  
a file through the encryption layer while a **backup program** archives the encrypted data directly from the  
[nii.isi.edu/people/johnh/PAPERS/Heidemann95c.ps.gz](http://nii.isi.edu/people/johnh/PAPERS/Heidemann95c.ps.gz)

[Protecting File Systems: A Survey of Backup Techniques - Chervenak, Vellanki, Kurmas \(1998\)](#) (Correct)  
(15 citations)

of the files. 2.3 On-line Backup While many **backup programs** require that the file system remain  
during backup, then depending on where the **backup program** is in its traversal of the file system  
[www.cs.gatech.edu/fac/Ann.Chervenak/papers/mss98final.ps](http://www.cs.gatech.edu/fac/Ann.Chervenak/papers/mss98final.ps)

[The Amanda Network Backup Manager - Silva, Guthmundsson \(1993\)](#) (Correct) (4 citations)  
be working on generalizing Amanda to handle **backup programs** other than BSD dump, like tar (and  
host. In addition to the main overnight **backup program**, Amanda has several auxiliary programs: 1.  
[www.usenix.org/publications/library/proceedings/lisa93/full\\_papers/daSilva.ps](http://www.usenix.org/publications/library/proceedings/lisa93/full_papers/daSilva.ps)

[Performance of a Parallel Network Backup Manager - Silva, Gudmundsson.. \(1992\)](#) (Correct) (3 citations)  
Unix systems and their derivatives come with a **backup program** called dump, and its corresponding  
[ftp.cs.umn.edu/mirrors/ftp.amanda.org/pub/amanda/usenix92.ps.gz](http://ftp.cs.umn.edu/mirrors/ftp.amanda.org/pub/amanda/usenix92.ps.gz)

[A Method For Fast Tape Backups And Restores - Drizis \(1993\)](#) (Correct) (1 citation)  
would continue without repositioning. **backup program** was loosely based on the tar Unfortunately  
John Gilmore, Public Domain Tar Manual Pages, **backup programs** it was tested against. The backup version  
[www.cs.ubc.ca/local/reading/proceedings/spe91-95/spe/.vol23/issue7/spe840.pdf](http://www.cs.ubc.ca/local/reading/proceedings/spe91-95/spe/.vol23/issue7/spe840.pdf)

[Checking and Certifying Computational Results - Bright \(1994\)](#) (Correct) (1 citation)  
that an error occurred, and we assume that a **backup program** (written in the spirit of N-version  
[www.dnai.com/~bright/pubs/thesis.ps](http://www.dnai.com/~bright/pubs/thesis.ps)

[The Importance of Understanding Distributed System Configuration - Oppenheimer](#) (Correct)  
in a remote datacenter. Unfortunately the **backup program** had not been running for over a year because  
[roc.cs.berkeley.edu/papers/dsconfig.pdf](http://roc.cs.berkeley.edu/papers/dsconfig.pdf)

[The Slow Control System of the Muon g-2 Experiment - Arnold Stillman Brookhaven](#) (Correct)  
or output circuits, and options for EEPROM **program backup**. Basically, they are scanners that read to  
[www.aps.anl.gov/conferences/mirrored/www.cern.ch/accelconf/p95/ARTICLES/MPA/MPA09.PDF](http://www.aps.anl.gov/conferences/mirrored/www.cern.ch/accelconf/p95/ARTICLES/MPA/MPA09.PDF)

[Submillimeter observations of IC 10: the dust properties.. - Alberto Bolatto James](#) (Correct)  
allow [C I] observations we switched to our **backup program**, observing CO (J = 3 !2) with the RxB3 SIS  
[astro.bu.edu/~bolatto/ApJic10.ps](http://astro.bu.edu/~bolatto/ApJic10.ps)

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[Building the Mass Storage System at Jefferson Lab - Ian Bird Bryan \(2001\)](#) [\(Correct\)](#) [\(1 citation\)](#)  
easily recovered. Procedures for database and **metadata backup** and recovery will be required. The metadata  
[storageconference.org/2001/2001CD/13bird.pdf](http://storageconference.org/2001/2001CD/13bird.pdf)

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[Anthropometry For Computer Graphics Human Figures - Grosso, Quach, Otani, Zhao, ... \(1987\) \(Correct\)](#)  
 (1 citation)

#25 12.3 Database Query Spreadsheet #

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[www.cis.upenn.edu/~badler/anthro/89-71.pdf](http://www.cis.upenn.edu/~badler/anthro/89-71.pdf)

[Linear vs. Polynomial Constraints in Database Query.. - Afrati, Cosmadakis.. \(1994\) \(Correct\)](#) (1 citation)

Linear vs. Polynomial Constraints in **Database Query** Languages Foto Afrati z NTU Athens

Linear vs. Polynomial Constraints in **Database Query** Languages Foto Afrati z NTU Athens Stavros S.

constraints into logical formalisms for **programming** languages [DG,JL87,Ma87,Sa] and **database**

<ftp.cs.washington.edu/pub/constraints/ppcp94/afrati.ps.Z>

[An English Version of the LIMSI L'ATIS System - Minker \(1995\) \(Correct\)](#)

the Air Travel Information Services (ATIS) task **database**, a designated common task for data collection

component and a component handling **database query** and response generation. A case frame approach is

within the ARPA Speech and Natural Language (NL) **program**. The system includes a speech recognizer, an

[tip.limsi.fr/public/lim9512.ps.Z](http://tip.limsi.fr/public/lim9512.ps.Z)

[A Declarative Programming System for Manipulating Strings - Hakli, Nykänen, Tamm \(1999\) \(Correct\)](#)  
 (1 citation)

an implementation of Alignment Declarations, a **database query** language extension for the declarative

of Alignment Declarations, a **database query** language extension for the declarative

A Declarative **Programming** System for Manipulating Strings Raul

[www.cs.helsinki.fi/Matti.Nykanen/publications/fusst99.ps.gz](http://www.cs.helsinki.fi/Matti.Nykanen/publications/fusst99.ps.gz)

[Knowledge Discovery in Databases - Wüthrich \(1995\) \(Correct\)](#)

Knowledge Discovery in **Databases** Beat Wuthrich The Hong Kong University of

<ftp.cs.ust.hk/pub/techreport/95/tr95-04.ps.gz>

[Set-Term Matching in a Logic Database language - Seung Jin \(Correct\)](#)

Set-Term Matching in a Logic **Database** language Seung Jin Lim Yiu-Kai Ng Computer

First, logic **programming** is extended to a **database query** language for expressing (recursive) **database**

[AGS92]Keywords: Logic **database** language, logic **programming**, set-term, matching, unification 1

[lantern.cs.byu.edu/papers/stm.ps](http://lantern.cs.byu.edu/papers/stm.ps)

[Learning to Parse Database Queries Using Inductive Logic.. - Zelle, al. \(1996\) \(Correct\)](#) (15 citations)

Intelligence (AAAI-96) Learning to Parse **Database** Queries Using Inductive Logic **Programming** John

Experimental results with a complete **database-query** application for U.S. geography show that Chill

to Parse **Database** Queries Using Inductive Logic **Programming** John M. Zelle Department of Mathematics

<ftp.cs.utexas.edu/pub/mooney/papers/chill-aaai-96.ps.Z>

[Object-oriented Database Management Systems for.. - Emmerich, Kroha, Schäfer \(1994\) \(Correct\)](#) (3 citations)

Object-oriented **Database** Management Systems for Construction of CASE

lists or sets are used. For navigation purposes a **query** language is used then. The type-compatibility in.

and corresponding tools which do not only support **programming** but also specification, design, and

[tokio.dbis.informatik.uni-frankfurt.de/REPORTS/GOODSTEP/GoodStepReport003.ps.gz](http://tokio.dbis.informatik.uni-frankfurt.de/REPORTS/GOODSTEP/GoodStepReport003.ps.gz)

[Generating F0 Contours For Speech Synthesis Using The Tilt.. - Dusterhoff, Black \(1997\) \(Correct\)](#)

automatically from natural speech. Given a speech **database** labelled with Tilt events, this paper shows how

[www.cstr.ed.ac.uk/publications/publications/1997/Dusterhoff\\_1997\\_a.ps](http://www.cstr.ed.ac.uk/publications/publications/1997/Dusterhoff_1997_a.ps)

Fine-granularity Locking and Client-Based Logging.. - Panagos, Biliris.. (1996) (Correct) (3 citations)  
Proc. of the 5th Int'l Conf. on Extending **Database** Technology (EDBT) March 1996, pages 388-402  
In [5] local disks are used to store relational **query** results that are retrieved from the server.  
[www.research.att.com/~biliris/publications/papers/96\\_edbt.ps](http://www.research.att.com/~biliris/publications/papers/96_edbt.ps)

Enhancing External Consistency in Real-Time Transactions - Lin, Peng (1996) (Correct) (2 citations)  
computing brings two new requirements to **database** management. The first is the deadline  
example is the stock market **database**. A trading **program** may be executed for a long time and its read  
[cs-pub.bu.edu/techreports/96-003-rtdbs-sigmod-record/6.External-Consistency.ps.Z](http://cs-pub.bu.edu/techreports/96-003-rtdbs-sigmod-record/6.External-Consistency.ps.Z)

Multi-level Data Fusion for the Detection of.. - Borghys, Verlinde, ... (1998) (Correct)  
image sequences. The method was tested on a **database** of multi-spectral image sequences, acquired  
[ftp.elec.rma.ac.be/user/dirk/OptEng98.ps.gz](http://ftp.elec.rma.ac.be/user/dirk/OptEng98.ps.gz)

Generating Association Rules from Semi-Structured Documents.. - Lisa Singh (1997) (Correct) (7 citations)  
research has focused on generating rules within **databases** containing structured values while essentially  
of the articles written by Joe Smith involve Cprogramming. 1 Note, graphics and audio files are also  
for these other data types. Joe Smith Cprogramming :20% However, without knowledge of  
[web.ece.nwu.edu/EXTERNAL/dbwww/papers/CIKM97.ps](http://web.ece.nwu.edu/EXTERNAL/dbwww/papers/CIKM97.ps)

Tuple-Level Analysis for Identification of Interesting Patterns - Bing Liu (1996) (Correct)  
huge number of patterns can be discovered from a **database**. Most of these patterns are actually useless or  
1 can be incorporated into the rule generation **program** (e.g.C4.5)It is basically linear to the size  
Fall, 1994, pg. 77-87. 9] J. Ross Quinlan. C4.5: **program** for machine learning. Morgan Kaufmann, 1992.  
[www.comp.nus.edu.sg/~liub/publications/tuple.rep.ps](http://www.comp.nus.edu.sg/~liub/publications/tuple.rep.ps)

Hyperspeech: Navigating in Speech-Only Hypermedia - Barry Arons (1991) (Correct) (21 citations)  
uses speech recognition to maneuver in a **database** of digitally recorded speech segments synthetic  
a scheduled telephone call. A telemarketing-style **program** then called, played recorded versions of the  
concise. This data driven architecture allows the **program** that handles all navigation, user interaction,  
[www.media.mit.edu/people/barons/papers/Hyperspeech-Hypertext191.ps](http://www.media.mit.edu/people/barons/papers/Hyperspeech-Hypertext191.ps)

Rotation Invariant Texture Recognition Using a.. - Greenspan, Belongie, ... (1994) (Correct) (12 citations)  
recognition results are presented on a 30 texture **database** with a comparison across the performance of the  
[vision.caltech.edu/pub/tech-reports/ICPR94-texture.ps.Z](http://vision.caltech.edu/pub/tech-reports/ICPR94-texture.ps.Z)

Schema Evolution for Real-Time Object-Oriented Databases - Lei Zhou (1994) (Correct) (1 citation)  
1 Schema Evolution for Real-Time Object-Oriented **Databases** 1 Lei Zhou, Elke A. Rundensteiner, and Kang G.  
of the skill trades and apprenticeship **programs**. It was observed that the most frequent  
hierarchy, which is based on an object-oriented **programming** technique-the envelope/letter structure  
[ftp.eecs.umich.edu/techreports/cse/1994/CSE-TR-199-94.ps.Z](http://ftp.eecs.umich.edu/techreports/cse/1994/CSE-TR-199-94.ps.Z)

The GlobalPhone Project: Multilingual LVCSR with JANUS-3 - Schultz, Westphal, Waibel (1997) (Correct) (5 citations)  
our recent effort in developing the GlobalPhone **database** for multilingual large vocabulary continuous  
should "look nice"The Tcl/Tk language 2 makes **programming** of graphical user interfaces easy. Thus  
ones upon them. Also, the object-oriented JANUS-3-**programming**-language (Tcl augmented by the  
[www.is.cs.cmu.edu/papers/speech/SQEL97/SQEL97-tanja.ps.gz](http://www.is.cs.cmu.edu/papers/speech/SQEL97/SQEL97-tanja.ps.gz)

Dynamic Word Problems - Frandsen, Miltersen, Skyum (1993) (Correct) (8 citations)  
changes the i'th component of x to a. ffl **query**. This operation returns true if x 2 L, false  
Supported By The Esprit li Basic Research Actions **Program** Of The European Community Under Contract No.  
Bounded-width polynomial-size branching **programs** recognize exactly those languages in NC 1 J.  
[www.brics.dk/~gudmund/Documents/dwp.ps](http://www.brics.dk/~gudmund/Documents/dwp.ps)

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[Compositional Development from Reusable Components Requires.. - Agha \(1998\)](#) [\(Correct\)](#) [\(5 citations\)](#)

a reliable server may be developed by adding a **backup** to an existing server and installing an instance model of component computation, and a comprehensive **meta-model** which describes how distributed management

G. A. Agha. Abstracting interaction patterns: A **programming** paradigm for open distributed systems. In E. [www.cbjs.com/workshops/ws9801/papers/paper023.ps](http://www.cbjs.com/workshops/ws9801/papers/paper023.ps)

[A Cached WORM File System - Quinlan \(1991\)](#) [\(Correct\)](#) [\(7 citations\)](#)

Laboratories. Keywords File systems Caches WORM **Backup** Introduction Write-once optical disk technology system, do not contain multiple copies of unchanged **data**, and can be used to rebuild the file system in the [plan9.bell-labs.com/cm/cs/who/seanq/cw.ps](http://plan9.bell-labs.com/cm/cs/who/seanq/cw.ps)

[Security Analyses of Network Time Services - Matt Bishop](#) [\(Correct\)](#)

each file was last modified. The time of the last **backup** is also recorded, and only those files which have and a third form in which the original owners of **data** retain control of the **data** as it propagates and require workstations on such a LAN to **query** 5. Note that this is not a barrier to NTP, since [krasse.ce.chalmers.se/Security/nts-security.ps.gz](http://krasse.ce.chalmers.se/Security/nts-security.ps.gz)

[Safety Property Verification of ESTEREL Programs and .. - Jagadeesan, Puchol, ... \(1995\)](#) [\(Correct\)](#) [\(19 citations\)](#)

protocol, whenever a line degrades or fails, a **backup** line, called a "protection line, is used paths, including those that are impossible due to **data** values. Thus if a **program** violates a property, a 1995. Safety Property Verification of ESTEREL **Programs** and Applications to Telecommunications Software [www.cs.utexas.edu/users/cpg/pub/95-CAV.ps.gz](http://www.cs.utexas.edu/users/cpg/pub/95-CAV.ps.gz)

[Incorporating Verification of Liveness Properties in.. - Cheung.. \(1996\)](#) [\(Correct\)](#)

is designed for applications that cannot tolerate **data** loss. It provides sequenced, lossless delivery of The software architecture of a distributed **program** can be represented by a hierarchical composition to derive the overall behaviour of a distributed **program** based on its architecture. CRA is particularly [ftp.cs.ust.hk/pub/techreport/96/tr96-36.ps.gz](http://ftp.cs.ust.hk/pub/techreport/96/tr96-36.ps.gz)

[Compositional Analysis of Modular Logic Programs - Codish, Debray, Giacobazzi \(1993\)](#) [\(Correct\)](#) [\(27 citations\)](#)

to this situation, however, current works on **dataflow** analysis of logic **programs** typically assume Compositional Analysis of Modular Logic **Programs** Michael Codish 3 Saumya K. Debray z Roberto a compositional approach to the analysis of logic **programs**. A logic **program** is viewed as consisting of a [ftp.cs.bgu.ac.il/pub/people/mcodish/pop193.ps.gz](http://ftp.cs.bgu.ac.il/pub/people/mcodish/pop193.ps.gz)

[Advanced Programming Techniques Using Scheme - Moreau, Ribbens, Gribomont \(1998\)](#) [\(Correct\)](#)

with side effects and assignments, etc. A **meta-circular** evaluator is given as a third semantic functional **programming**, the curriculum includes **databases**, complexity, parallel **programming**, compilers, des Langages Applicatifs -JFLA98 Advanced **Programming** Techniques Using Scheme Luc Moreau 1 [www.ecs.soton.ac.uk/~lavm/papers/jfla98.ps](http://www.ecs.soton.ac.uk/~lavm/papers/jfla98.ps)

[Partial Evaluation of the "Real Thing" - Leuschel \(1994\)](#) [\(Correct\)](#) [\(5 citations\)](#)

evaluation. In H. Abramson and M. Rogers, editors, **Meta-Programming** in Logic **Programming**, Proceedings of Using the Prolog computation and search rules, the **query** /q(X) will fail for **program** P 1 whereas it will partial deduction can be extended to specialise **programs** of this kind. We point out some of the problems [ftp.cs.kuleuven.ac.be/pub/logic-prgm/publications/conferences/topstr94.leuschel.ps](http://ftp.cs.kuleuven.ac.be/pub/logic-prgm/publications/conferences/topstr94.leuschel.ps)

[Implicit and Incremental Computation of Primes and Essential.. - Coudert, Madre \(1991\)](#) [\(Correct\)](#) [\(27 citations\)](#)



Boolean functions. These sets are denoted by meta-products that are represented with binary decision of Multiple-Valued Logic to a Design of Programmable Logic Arrays"Proc. of 8th Int'l Symposium  
ftp.digital.com/pub/DEC/PRL/research-articles/COU2.ps.Z

Applying Coupled Resolution Engines to Knowledge Bases - Taylor, Williams (Correct)

The CLP engine supports the Parlog control meta-call, allowing different CLP computations to table and code area for execution over a shared database, or using separate Unix processes for ask(Result, F)Over this program the Prolog query |par(dev/tty1'dev/tty2'would set  
www.cee.hw.ac.uk/~hamish/ps/applying.ps

Comparison of Meta-Heuristic Algorithms for Clustering Rectangles - Burke, Kendall (Correct)

Comparison of Meta-Heuristic Algorithms for Clustering Rectangles  
various ways. Some approaches, using mathematical programming techniques can be used to solve the problem  
www.asap.cs.nott.ac.uk/ASAP/papers/ps/gk\_cie24\_98.ps.gz

Meta-ElGamal signature schemes - Horster, Michels, Peterson (1994) (Correct) (13 citations)

and Information Security Technical Report TR-94-5-F Meta-ElGamal signature schemes Patrick Horster \Delta  
www.geocities.com/CapeCanaveral/Lab/8967/TR-94-5.ps.gz

The Geographical Antserver: a Client/Server Architecture... - Szmurlo, Gaio, Madelaine (1997) (Correct)

It would then be necessary to define a DBMS meta server (implemented as an automaton-based server, that aims to query heterogeneous document databases in a transparent way for the user [15]The applications lack an interface for complex query construction. The first reason for this is the  
www.sbg.ac.at/geo/eogeo/Authors/Szmurlo/Graphics/eogeo.ps

A Flip-Chip Implementation of the Data Encryption... - Schaffer, Glaser, Rao.. (Correct)

ciphertext respectively. Process 3.3V, 0.6m, 3-metal N-well CMOS Transistors 123,104 I/O Pads 210 Die  
A Flip-Chip Implementation of the Data Encryption Standard (DES) Toby Schaffer Alan  
www.eos.ncsu.edu/eos/info/visi\_info/techreports/NCSU-ERL-97-02.PS.Z

Mining Sequential Patterns: Generalizations And Performance... - Srikant, Agrawal (1996) (Correct) (150 citations)

was recently introduced in [AS95]We are given a database of sequences, where each sequence is a list of  
www.almaden.ibm.com/cs/people/ragrawal/papers/edbt96\_rj.ps

Web Document Clustering: A Feasibility Demonstration - Zamir, Etzioni (1998) (Correct) (74 citations)

the effectiveness and speed of STC, we have created MetaCrawler-STC, a prototype clustering Web search collection. This is done efficiently using a data structure called a suffix tree (Weiner, 73  
smaller set of documents returned in response to a query. Because the search engines service millions of  
zhadum.cs.washington.edu/zamir/sigir98.ps

Knowledge-Based Navigation of Complex Information Spaces - Burke, Hammond, Young (1996) (Correct) (15 citations)

these complexities. Since browsing is the central metaphor, we avoid as much as possible forcing users to new opportunities for finding and using electronic data, it has also brought to the forefront the problem or she wants well enough to create a well-defined query in a query language. The alternative to querying  
ftp.cs.uchicago.edu/pub/users/burke/findme-aaai-96.ps.Z

Compressing The X Graphics Protocol - Moffatt (Correct) (1 citation)

a new technique for compressing structured data. iii Embodied in the Higher Bandwidth X (HBX)  
www.cs.dartmouth.edu/~jmd/thesis.ps.Z

Materializing the Web - De Rosa, Catarci, Iocchi, Nardi.. (1998) (Correct) (5 citations)

search engines (SEs)We used Lycos, Yahoo! and Metacrawler relying on their particular features to the Web, that enables for automatically acquiring data from Web sites and making them accessible to the them accessible to the user through a database query paradigm. The basic idea is to build, once the  
ftp.dis.uniroma1.it/pub/iocchi/publications/web-coopis98.ps.gz

Performance Analysis of an Associative Caching Scheme for... - Basu, Pöss, Keller (1997) (Correct)

of an Associative Caching Scheme for Client-Server Databases Julie Basu Meikel Poss Arthur M. Keller

· [www-db.stanford.edu/pub/keller/1997/CS-TN-97-61.ps](http://www-db.stanford.edu/pub/keller/1997/CS-TN-97-61.ps)

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[A Quantitative Analysis of Loop Nest Locality - McKinley, Temam \(1996\) \(Correct\) \(38 citations\)](#)

on loop nests to provide predictable and regular **data** accesses. Techniques to improve **data** and software cache optimizations. Since most **programs** spend the majority of their time in nests, the codes based on references, loop nests, and **program** locality properties. Our results show that [www.masi.uvsq.fr/~temam/Articles/McTe96.ps.gz](http://www.masi.uvsq.fr/~temam/Articles/McTe96.ps.gz)

[Progress in Recognizing Typeset Mathematics - Fateman, Tokuyasu \(1996\) \(Correct\) \(6 citations\)](#)

2. We found Lisp's natural support for linked-list **data**-structures especially convenient for representing approach may benefit the incorporation of these **programs** into a more general document processing public our somewhat refined prototypes as utility **programs** in the hope that they will be of general use in <http://cs.berkeley.edu/~fccheong/fateman-spie96.ps>

[Towards a New Massively Parallel Computational Model for... - Hölldobler, Kalinke \(Correct\)](#)

Gallaire and Nicolas, editors, Workshop Logic and Databases, CERT, Toulouse, France, 1977. 3] W. F. Massively Parallel Computational Model for Logic **Programming** Steffen H ölldobler and Yvonne Kalinke Abstract The semantics of logic **programs** is commonly defined as the least fixed point of [cui.unige.ch/AI/ecai-94/hoelldobler.ps.Z](http://cui.unige.ch/AI/ecai-94/hoelldobler.ps.Z)

[An Environment for the Rapid Prototyping and... - De Rose.. \(1994\) \(Correct\) \(2 citations\)](#)

and the exploitation of parallelism and **data** distribution. 1 Introduction Interactive array rapid prototyping and development of numerical **programs** and libraries for scientific computation L. Rapid Prototyping and Development of Numerical **Programs** and Libraries for Scientific Computation L. De [www.acl.lanl.gov/Pooma94/Papers/1370.ps](http://www.acl.lanl.gov/Pooma94/Papers/1370.ps)

[A Simulation of Adaptive Agents in a Hostile Environment - Haynes, Wainwright \(1995\) \(Correct\) \(2 citations\)](#)

next generation. The Simulator did provide enough **data** to show that it is capable of creating agents who Tulsa Abstract In this paper we use the genetic **programming** technique to evolve **programs** to control an use the genetic **programming** technique to evolve **programs** to control an autonomous agent capable of [adept.cs.twsu.edu/~thomas/sac95.ps](http://adept.cs.twsu.edu/~thomas/sac95.ps)

[Genetic Programming to Learn an Agent's Monitoring Strategy - Atkin, Cohen \(1993\) \(Correct\) \(6 citations\)](#)

an obstacle without touching it, given noisy sensor **data**-usually can be accomplished more efficiently if Genetic **Programming** to Learn an Agent's Monitoring Strategy \* to learn good monitoring strategies with a genetic **programming** algorithm. To this end, we have developed a [www-eksl.cs.umass.edu/papers/93-26.ps](http://www-eksl.cs.umass.edu/papers/93-26.ps)

[Learning Bayesian Networks from Incomplete Databases - Ramoni, Sebastiani \(1997\) \(Correct\) \(14 citations\)](#)

Learning Bayesian Networks from Incomplete **Databases** Marco Ramoni Paola Sebastiani KMI-TR-43 [kmi.open.ac.uk/techreports/papers/kmi-tr-43.ps.gz](http://kmi.open.ac.uk/techreports/papers/kmi-tr-43.ps.gz)

[Evaluation of Sampling for Data Mining of Association Rules - Zaki, Parthasarathy, Li.. \(1996\) \(Correct\) \(16 citations\)](#)

using only general-purpose DBMS systems and **relational** algebra operations have also been proposed [6, Evaluation of Sampling for **Data** Mining of Association Rules Mohammed Javeed [ftp.cs.rochester.edu/pub/papers/systems/97.RIDE.Eval\\_of\\_sampling\\_for\\_data\\_mining\\_of\\_assoc\\_rules.ps.gz](http://ftp.cs.rochester.edu/pub/papers/systems/97.RIDE.Eval_of_sampling_for_data_mining_of_assoc_rules.ps.gz)

[DEVise: Integrated Querying and Visual Exploration .. - Livny.. \(1997\) \(Correct\) \(43 citations\)](#)

In particular, it combines support for extended **relational** queries with powerful **data** visualization at several levels of detail: all the way from **meta-data** summarizing the entire **dataset**, to large Integrated Querying And Visual Exploration Of Large **Datasets** (demo Abstract) M. Livny, R. Ramakrishnan, K. [www.cs.wisc.edu/~devise/devise/sigmod97demo.ps.gz](http://www.cs.wisc.edu/~devise/devise/sigmod97demo.ps.gz)

Neural Network Technology to Support View Integration - Ellmer, Huemer, Merkl, Pernul (1995) (Correct)  
Early work has been done in the context of the **relational** model [3]the functional model [15] or more the vector and consists of parsing the **meta-data** to determine for each class which of the  
1. Introduction For the development of large **databases** it is difficult to design the whole  
ftp.ifs.tuwien.ac.at/pub/publications/ooer95.ps.Z

Information Resource Dictionary System Standards And Support For... - Byrne (Correct)  
for a **data** dictionary. At the time many **relational database** products were moving towards SQL as a to as a repository. The content of an IRDS is **meta-data -data about data**"This work examines the Standards (for example **database** languages or **Programming** languages) which do provide functionality  
www.uni-koblenz.de/fb4/publikationen/gelbereihe/RR-14-97/byrne.ps.gz

An Object-Oriented Framework for Curves and Surfaces.. - Slusallek, Klein.. (1994) (Correct) (1 citation)  
needs to be implemented for these derived classes. **Meta** Classes The application **programmer** that will use surfaces, differential geometry, scattered **data** interpolation, tessellation, display, and user a variety of curve and surface types into a single **program**. Object-oriented design offers the opportunity  
graphics.stanford.edu/~slusallek/Papers/chamonix94.ps.gz

Matrix Market: A Web Resource for Test Matrix Collections - Boisvert, Pozo.. (1997) (Correct) (29 citations)  
1996) To Enhance Its The Usefulness. 3 A Matrix **Meta-Database** As A Collection Of Test Problems Becomes Abstract We describe a repository of **data** for the testing of numerical algorithms and equations extracted from oil reservoir modeling **programs**. These are those five matrices. Each matrix  
phase.etl.go.jp/MatrixMarket/reports/MMpaper.ps.gz

Towards a Better Understanding of Web Resources and Server.. - Wills, Mikhailov (1999) (Correct) (27 citations)  
understand how changes in Web resources and the **meta** information reported by servers affect caching by at servers and how these servers report **meta data** about the resources. The long-term goal of our  
www.cs.wpi.edu/~mikhail/papers/www8.ps.gz

Web Mining: Information and Pattern Discovery on the.. - Cooley, Mobasher...(1997) (Correct) (72 citations)  
and organized in structured collections, i.e. **relational** or object-oriented **databases**. For example, Han, such as Lycos, Alta Vista, WebCrawler, ALIWEB [29]**MetaCrawler**, and others provide some comfort to users, Minneapolis, MN 55455, USA Abstract Application of **data** mining techniques to the World Wide Web, referred  
maya.cs.depaul.edu/~mobasher/papers/webminer-tai97.ps

Challenging the Computational Metaphor: Implications for How We... - Stein (1999) (Correct) (3 citations)  
Lynn Andrea Stein Challenging the Computational Metaphor 1 Challenging the Computational Metaphor:  
www.ai.mit.edu/people/las/papers/CCM.ps

Tableaux Methods for Access Control in Distributed Systems - Massacci (1997) (Correct) (1 citation)  
stations, Alphas, Ethernet, ATM, printer systems, **backup** systems and T E X. gt: Knows about UNIX, Suns, As the size of the systems and the sensitivity of **data** increase formal methods of analysis are often systems can do directly or through their **programs**. As the size of the systems and the sensitivity  
ftp.dis.uniroma1.it/pub/ai/papers/mass-97-TABLEAUX.ps.gz

Implementation and Evaluation of Prefetching in the.. - Arunachalam.. (1996) (Correct)  
be addressed to a certain extent, if the necessary **data** can be fetched from the disk before the I/O call was chosen because it is well suited for the SPMD **programming** model, in which applications performing an 64KB and default stripe factor 8. The workload **programs** opened files in the M RECORD mode. Delays were  
www.ece.nwu.edu/~meena/papers/ipps.ps

Fault Tolerant Object Replication Algorithm - Beedubail, Karmarkar, Pooch (1995) (Correct)  
one server as the primary and all others as **backups**. Clients make requests by sending messages only broadcasts can be used to maintain replicated **data** (active replication)Object Replication in of local procedure call) and simpler to **program**. Use of RPC implies that, all of the lower layer  
www.cs.tamu.edu/research/phoenix/techreports/TR\_95-042.ps.Z

Implementing Adaptive Fault-Tolerant Services for Hybrid Faults - Gong, Goldberg (Correct)  
services are commonly known as the Primary-**Backup** approach (PB) and the State-Machine approach

- Byzantine Generals Problem. ACM Transactions on Programming Languages and Systems, 4(3)382-401, July  
[www2.csl.sri.com/reports/postscript/sri-csl-tr94-04-revised.ps.gz](http://www2.csl.sri.com/reports/postscript/sri-csl-tr94-04-revised.ps.gz)

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[Implementing Highly-Available WWW Servers based on... - Baldoni, Bonamoneta... \(1999\) \(Correct\)](#)  
Services, Passive Object Replication, Primary-Backup Approach. Authors address: Dipartimento di  
ftp.dis.uniroma1.it/pub/COMPARCH/baldoni/rap-14-98.ps

[An Architecture and Object Model for Distributed... - Stankovic, Son \(1998\) \(Correct\) \(7 citations\)](#)  
a deadline, full quality QoS display, a primary/backup fault tolerance requirement, and a  
atlas.cs.virginia.edu/~vadb/starbase/.../publications/isorc98.ps

[BeeHive: Global Multimedia Database Support for... - Stankovic, Son... \(1997\) \(Correct\) \(9 citations\)](#)  
a deadline, full quality QoS display, a primary /backup fault tolerance requirement, and a  
41. E. McKenzie and R. Snodgrass, Evaluation of Relational Algebras Incorporating the Time Dimension in  
www.cs.virginia.edu/~stankovic/psfiles/beepaper...artd.ps

[Correlated Action Effects in Decision Theoretic Regression - Boutilier \(1997\) \(Correct\) \(3 citations\)](#)  
goal regression [5]More specifically, a Bellman backup [2] for a specific action a is essentially a  
www.cs.ubc.ca/spider/cebly/Papers/uai97b.ps.gz

[Customization and Composition of Distributed Objects: Policy... - Astley \(1999\) \(Correct\) \(11 citations\)](#)  
1) each server interaction is duplicated at the backup, 2) a state snapshot is periodically sent to the  
osl.cs.uiuc.edu/~m-astley/thesis.ps.gz

[The Recovery Box: Using Fast Recovery to Provide High... - Baker, Sullivan \(1992\) \(Correct\) \(24 citations\)](#)  
the system first tries to recover quickly from backup data that it stored in main memory during  
Using our recovery box implementation, a Sprite file server recovers in 26 seconds and a database  
gunpowder.stanford.edu/~mgbaker/publications/recovbox.ps

[Object-Oriented Design of Main-Memory DBMS for Real-Time ... - Cha, Park, Lee, Song... \(1995\) \(Correct\) \(3 citations\)](#)  
To Achieve High Perfor- Storage System Interface Backup Database DbA Tool Interactive Rt-Sql Rt-Sql  
top of M 2 RTSS, RT-SQL engine implements the relational query processing module. RT-SQL is an extended  
"Query Optimization in a Memory-resident Domain Relational Calculus System,ACM Transactions on Database  
kdb.snu.ac.kr/~jhpark/PSFiles/rtsa95.ps

[A Highly Available, Scalable ITV System - Nelson, Linton, Owicki \(1995\) \(Correct\) \(4 citations\)](#)  
unless the primary fails. At that time, one of the backup replicas becomes primary and continues to provide  
its operations. For example, an object may be a file, whose interface includes the operations read and  
www.star-lab.com/owicki/papers/itv.ps

[Scaling Reinforcement Learning Algorithms by Learning... - Satinder Singh \(Correct\) \(14 citations\)](#)  
by all DPbased learning algorithms is that of a "backup"A backup uses a state transition, whether  
ftp.cs.colorado.edu/users/baveja/Papers/ML92.ps.gz

[Incremental Recovery In Main Memory Database Systems - Levy, Silberschatz \(1992\) \(Correct\) \(25 citations\)](#)  
for propagating updates from main memory to the backup database on disk is also provided. Here the  
operation is used for updating both index and data files, then the index and the corresponding data file  
ftp.cs.utexas.edu/pub/avi/UT-CS-TR-92-01.PS.Z

[Design, Testing, and Evaluation Techniques for Software Reliability ... - Lyu \(Correct\)](#)  
Op. System Hardware SystemsSoftware Application backup Op. System Hardware Systems Software watchd  
higher level is on-line replication of application files at a remote site in addition to the previous  
www.cse.cuhk.edu.hk/~lyu/postscript/euro98.ps

Learning Evaluation Functions for Large Acyclic Domains - Boyan, Moore (1996) (Correct) (13 citations)  
assignment statement (this is called a "one-step **backup**" at each state in parallel. If the lookup table  
[www.cs.cmu.edu/afs/cs/project/reinforcement/papers/boyan.acyclic.ps](http://www.cs.cmu.edu/afs/cs/project/reinforcement/papers/boyan.acyclic.ps)

Parallel Controlled Conspiracy Number Search - Ulf Lorenz (1995) (Correct)  
of  $v$  and  $n$  are determined by a quiescence search. ffl **Backup**: The results of an expansion have to be  
and the parallel program use the same source files concerning ccns, quiescence searches etc. So the  
[www.uni-paderborn.de/fachbereich/AG/monien/PUBLICATIONS/POSTSCRIPTS/LO\\_ccns2.ps.Z](http://www.uni-paderborn.de/fachbereich/AG/monien/PUBLICATIONS/POSTSCRIPTS/LO_ccns2.ps.Z)

Fault-Tolerant Routing with Non-Adaptive Wormhole Algorithms ... - Rajendra Boppana (1994) (Correct)  
(4 citations)  
used, livelocks may arise. To avoid livelocks, a **backup** nonadaptive routing algorithm is often used. For  
[ringer.cs.utsa.edu/faculty/boppana/papers/Sc94.ps](http://ringer.cs.utsa.edu/faculty/boppana/papers/Sc94.ps)

Failure Recovery Algorithms for Multi-Disk Multimedia Servers - Shenoy, Vin (Correct)  
(2) interleaved declustering uniformly distributes **backup** blocks of a disk amongst all the remaining disks,  
disk Table 4: Characteristics of MPEG traces File Encoding Pattern Length Motion (frames) Frasier  
[ftp.cs.utexas.edu/pub/techreports/tr96-06.ps.Z](http://ftp.cs.utexas.edu/pub/techreports/tr96-06.ps.Z)

Recovery in the Calypso File System - Devarakonda, Kish, Mohindra (1996) (Correct) (1 citation)  
the clients to reconstruct the server state on a **backup** node if disks are multi-ported or on the rebooted  
Recovery in the Calypso File System Murthy Devarakonda, Bill Kish, and Ajay  
[www.research.ibm.com/webvideo/calypso.ps](http://www.research.ibm.com/webvideo/calypso.ps)

Final Evaluation Report Computer Associates International, Inc. ... - Savage Road (Correct)  
: 206 6.8 **Backup** and Restore :  
Input/Output Configuration Data Set (iocds) on disk files that are associated with the processor  
[www.radium.ncsc.mil/tpcp/epl/entries/.../library/fers/CSC-FER-98-001.ps.gz](http://www.radium.ncsc.mil/tpcp/epl/entries/.../library/fers/CSC-FER-98-001.ps.gz)

Failure Recovery Algorithms for Multimedia servers - Shenoy, Vin (1999) (Correct) (2 citations)  
(2) interleaved declustering uniformly distributes **backup** blocks of a disk amongst all the remaining  
Table 4 : Characteristics of MPEG traces File Encoding Pattern Length Average Motion (frames)  
[www.cs.utexas.edu/users/dmcl/projects/symphony/papers/ps/MMSJ-FaultTolerance.ps](http://www.cs.utexas.edu/users/dmcl/projects/symphony/papers/ps/MMSJ-FaultTolerance.ps)

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IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

IEEE STD IEEE Standard

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| <input type="checkbox"/> | <p><b>1. A relational approach to querying data streams</b><br/> Hartzman, C.S.; Watters, C.R.;<br/> Knowledge and Data Engineering, IEEE Transactions on<br/> Volume 2, Issue 4, Dec. 1990 Page(s):401 - 409<br/> <a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF</a>(708 KB) IEEE JNL</p>   |
| <input type="checkbox"/> | <p><b>2. Operational information system in a power plant</b><br/> Ordieres Mere, J.; Ortega, F.; Bello, A.; Menendez, C.; Vallina, V.;<br/> Systems, Man, and Cybernetics, 1997. 'Computational Cybernetics and Simulation', 1997 IEEE International<br/> Volume 4, 12-15 Oct. 1997 Page(s):3285 - 3288 vol.4<br/> <a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF</a>(296 KB) IEEE CNF</p> |
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| <input type="checkbox"/> | <p><b>4. Automating relay coordination</b><br/> English, W.; Rogers, C.;<br/> Computer Applications in Power, IEEE<br/> Volume 7, Issue 3, July 1994 Page(s):22 - 25<br/> <a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF</a>(520 KB) IEEE JNL</p>  |
| <input type="checkbox"/> | <p><b>5. Knowledge-based distribution system analysis and reconfiguration</b><br/> Chang, G.; Zrida, J.; Birdwell, J.D.;<br/> Power Systems, IEEE Transactions on<br/> Volume 5, Issue 3, Aug. 1990 Page(s):744 - 749<br/> <a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF</a>(564 KB) IEEE JNL</p>   |

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Particle Accelerator Conference, 1991. 'Accelerator Science and Technology', Conference Record of the 1991  
6-9 May 1991 Page(s):1299 - 1301 vol.2

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Management of Replicated Data, 1990. Proceedings., Workshop on the  
8-9 Nov. 1990 Page(s):85 - 90

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3. **Proceedings of IEEE 9th International Conference on Data Engineering**  
Data Engineering, 1993. Proceedings. Ninth International Conference on  
19-23 April 1993

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Lawthers, P.;  
Mass Storage Systems, 1995. 'Storage - At the Forefront of Information Infrastructures', Proceedings of the F  
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Database and Expert Systems Applications, 1999. Proceedings. Tenth International Workshop on  
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3-6 Jan. 2001 Page(s):7 pp.

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Horst, R.;  
Network Computing and Applications, 2001. NCA 2001. IEEE International Symposium on  
8-10 Oct. 2001 Page(s):194 - 200

[AbstractPlus](#) | Full Text: [PDF](#)(588 KB) IEEE CNF



**8. Building cost-effective remote data storage capabilities for NASA's EOSDIS**

Marley, S.; Moore, M.; Clark, B.;  
Mass Storage Systems and Technologies, 2003. (MSST 2003). Proceedings. 20th IEEE/11th NASA Goddard  
7-10 April 2003 Page(s):28 - 39

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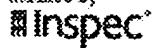
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 ... is now faced with multiple computer networks, **backup** software applications, databases and a variety of mandated retention schedules for backed up data. ...

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**Rackspace Managed Hosting - Specialized Services for Managed Hosting**
 ... Clustered storage devices can be deployed to meet the needs of high-volume, high-value **data backup applications**. **Data Restoration** ...

[www.rackspace.com/services/backup\\_recovery.php](http://www.rackspace.com/services/backup_recovery.php) - 59k - [Cached](#) - [Similar pages](#)

## Snap Appliance - High-performance, Low-cost, Network Attached ...

... For detailed information on selected **backup** solutions, see Solution Briefs. ... Use Snap Appliance's S2S **application** to automatically schedule a **data** ...

[www.snapappliance.com/page.cfm?name=backup&nav=support&type=Support](http://www.snapappliance.com/page.cfm?name=backup&nav=support&type=Support) - 15k -

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## Kasten Chase - Comprehensive Data Storage Security

... SecureData secures and tracks **backup** information on multiple storage media ... CAS **application data** is protected at rest and in flight regardless of ...

[www.kastenchase.com/index.aspx?id=26-41k](http://www.kastenchase.com/index.aspx?id=26-41k) - Cached - Similar pages



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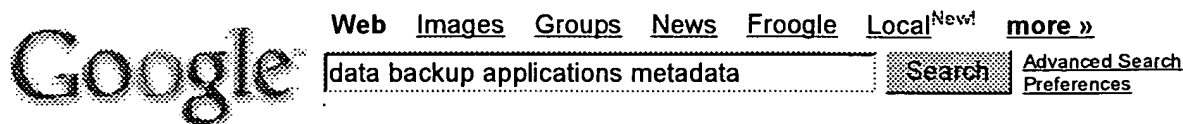
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### SNIA - Storage Networking Industry Association: DMF Dictionary

... A **backup** copy is a collection of **data** that constitutes a recoverable copy of ... associated with **applications**, **metadata** and **data**. information management ...  
www.snia.org/tech\_activities/dmf/Dictionary/ - 25k - [Cached](#) - [Similar pages](#)

### How Volume Shadow Copy Service Works: Data Recovery

... a **backup application** that creates shadow copy volumes to **back up data** while ... which ensures that file system **metadata** is written and that the **data** is ...  
www.microsoft.com/Resources/Documentation/ windowserv/2003/all/techref/en-us/W2K3TR\_vss\_how.asp - 38k  
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### Off-Site Data Back-Up And Protection Applications - Software ...

... for keyword: Off-Site **Data Back-Up And Protection Applications** returned 514 results. ... Unicorn provides **metadata** management and ontology modeling. ...  
productfinder.washingtontechnology.com/.../ Off-Site+Data+Back-Up+And+Protection+Applications/26/index.jsp - 121k - [Cached](#) - [Similar pages](#)

### Off-Site Data Back-Up And Protection Applications - Services and ...

... for keyword: Off-Site **Data Back-Up And Protection Applications** returned 47 results. ... and screen design to **metadata** definitions and taxonomy design. ...  
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## Contents

... **Metadata**, **User Data**, and **Reserved Area**. Control of Where **Data** Is Stored ...  
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publib.boulder.ibm.com/infocenter/ ids9help/topic/com.ibm.admin.doc/admin02.htm - 105k - [Cached](#) - [Similar pages](#)

## Backup classifications

... The following is tip #3 from "10 tips in 10 minutes on **backup** and restore ...  
The **backup application** in this case deals with blocks of **data**. ...  
searchwinsystems.techtarget.com/ tip/1,289483,sid68\_gci1076713,00.html - 60k - [Cached](#) - [Similar pages](#)

## Backup Strategies and System Availability During an Upgrade

... **Backup** Strategies for OracleAS **Metadata** Repository Upgrades ... Guide for information about the Oracle **Application Server Backup** and Recovery Tool, ...  
www.oracle.com/technology/documentation/ 1012\_solaris/upgrade.1012/upgrade/planning.htm - 33k - [Cached](#) - [Similar pages](#)

## CYA HOTBackup™ - Data Backup and Restoration with Intelligence ...

... **backup** and recovery solution that handles information at a very granular level. ...  
CYA HOTBackup captures the structured information (**metadata**) and ...  
www.cya.com/products/productIntro.asp?menuid=1 - 9k - [Cached](#) - [Similar pages](#)

## Patent 5684991: Modification metadata set, abstracted from ...

... Modification **metadata** set, abstracted from database write requests ... When the **backup application** attempts to read the file, **data** is substituted in the ...  
www.freepatentsonline.com/5684991.html - 48k - [Cached](#) - [Similar pages](#)

**backup: Information From Answers.com**

... Second, some **backup** programs can use checksums to avoid making redundant ...  
of the **data** onto a **backup** medium, along with **metadata** listing all places ...

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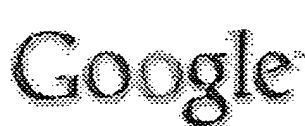
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### Network Appliance - Solutions - Applications - Data Protection ...

... The first one includes using NDMP-compliant **backup applications** and the second ... **Backup data** from the remote filers gets backed up over the network to ...

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#### **Backup Applications**

**Data Protection & Disaster Recovery**  
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[www.BackupMyPC.us](http://www.BackupMyPC.us)

### SNIA - Storage Networking Industry Association: DMF Dictionary

... to a **Backup Server**. Operational Recovery – OR: CONTEXT [Data Recovery] Recovery of one or more **applications** and **associated data** to correct operational ...

[www.snia.org/tech\\_activities/dmf/Dictionary/](http://www.snia.org/tech_activities/dmf/Dictionary/) - 25k - [Cached](#) - [Similar pages](#)

### UW Guidelines for Implementing Systems and Data Security Practices

... Wise operation of a computer system and **associated applications** includes ... Regular **backups** of all critical system software, **applications**, and **data** are ...

[www.washington.edu/computing/security/pass/securityguidelines.html](http://www.washington.edu/computing/security/pass/securityguidelines.html) - 36k -

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### PCWorld.com - Answer Line: Quick and Easy Data Backups to CD-RW Discs

... Windows\Application Data, Windows\Desktop, Windows\Favorites, and Windows\Start ...

Plenty of third-party **backup** programs do work with CD-RW, however. ...

[www.pcworld.com/howto/article/0,aid,73824,00.asp](http://www.pcworld.com/howto/article/0,aid,73824,00.asp) - [Similar pages](#)

### **Backups**

... This **data** changes as frequently as the **associated applications** are run. ... the expenses **associated** with using disk drives for **backup** mean that the ...

[www.redhat.com/docs/manuals/linux/RHL-9-Manual/admin-primer/s1-disaster-backups.html](http://www.redhat.com/docs/manuals/linux/RHL-9-Manual/admin-primer/s1-disaster-backups.html) - 34k - Apr 13, 2005 - [Cached](#) - [Similar pages](#)

#### **Backups**

... This **data** changes as frequently as the **associated applications** are run. ... these utility programs do not constitute a complete **backup** solution. ...

[www.redhat.com/docs/manuals/linux/RHL-8.0-Manual/admin-primer/s1-disaster-backups.html](http://www.redhat.com/docs/manuals/linux/RHL-8.0-Manual/admin-primer/s1-disaster-backups.html) - 43k - Apr 13, 2005 - [Cached](#) - [Similar pages](#)

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### Help for iSeries administrators

... the application definition automatically adjusts **associated data**, ... Integrated Vault

**Backup Agent: Backup data** stored on the vault can be easily ...

[search400.techtarget.com/originalContent/0,289142,sid3\\_gci1079180,00.html](http://search400.techtarget.com/originalContent/0,289142,sid3_gci1079180,00.html) - 30k - Apr 13, 2005 - [Cached](#) - [Similar pages](#)

### Yosemite Technologies Product Info: Datasheets and White Papers

... the solution should **backup** multiple **data** streams-from multiple **applications** ... the files **associated** with the various **applications** on the server or PC. ...

[www.yosemitetech.com/products/wp\\_backup\\_101.htm](http://www.yosemitetech.com/products/wp_backup_101.htm) - 24k - Apr 13, 2005 -

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### Data Backup and Recovery



... is the leader in online data protection and provides robust backup and recovery ...  
encounter while using our core products and associated applications. ...  
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| 1  | <b>BACKUP SYSTEM OF BETWEEN DIFFERENT TYPE DATABASES</b><br>Inventor: MARUMO NORIYUKI<br>EC:<br>Publication info: <b>JP2004295213</b> - 2004-10-21<br>Applicant: TOSHIBA TEC KK<br>IPC: G06F12/00   |
| 2  | <b>Method for paralld data transmission from computer in a network and backup system therefor</b><br>Inventor: FALD FLEMMING DANHILD [DK]<br>EC: G06F11/14A4B1M6<br>Publication info: <b>US2004073681</b> - 2004-04-15<br>Applicant:<br>IPC: G06F15/16; G06F15/173  |
| 3  | <b>Healthcare database management offline backup and synchronization system and method</b><br>Inventor: WILKES GORDON J [CA]; PAUL ERIC S [CA]; Applicant: (+2)<br>EC: A47B81/00; G06F19/00A<br>Publication info: <b>US2003204420</b> - 2003-10-30<br>IPC: G06F17/60  |
| 4  | <b>DATA BACKUP SYSTEM</b><br>Inventor: INAMORI CHIEMI; OGAWA KENJI<br>EC:<br>Publication info: <b>JP2003345640</b> - 2003-12-05<br>Applicant: MITSUBISHI ELECTRIC CORP<br>IPC: G06F12/00; G06F15/177  |
| 5  | <b>Backup system, backup method, database apparatus, and backup apparatus</b><br>Inventor: WAKABAYASHI RYUJI (JP)<br>EC:<br>Publication info: <b>US2002178174</b> - 2002-11-28<br>Applicant: FUJITSU LTD (US)<br>IPC: G06F12/00   |
| 6  | <b>Method and system for providing LUN-based backup reliability via LUN-based locking</b><br>Inventor: COCHRAN ROBERT ALAN [US]<br>EC:<br>Publication info: <b>US6721902</b> - 2004-04-13<br>Applicant: HEWLETT PACKARD DEVELOPMENT CO [US]<br>IPC: G06F11/00   |
| 7  | <b>System and method for backup a parallel server data storage system</b><br>Inventor: TAYLOR KENNETH J [US]<br>EC: G06F11/14A4B1M; G06F11/14A4C<br>Publication info: <b>US6658589</b> - 2003-12-02<br>Applicant: EMC CORP [US]<br>IPC: G06F11/00   |
| 8  | <b>System and method for external backup and restore for a computer data storage system</b><br>Inventor: TAYLOR KENNETH J [US]<br>EC: G06F17/30B<br>Publication info: <b>US6490598</b> - 2002-12-03<br>Applicant: EMC CORP [US]<br>IPC: G06F17/30   |
| 9  | <b>Database backup system ensuring consistency between primary and mirrored backup database copies despite backup interruption</b><br>Inventor: KERN ROBERT FREDERIC [US]; MICKA WILLIAM FRANK [US]; (+6)<br>EC: G06F17/30B<br>Publication info: <b>US6199074</b> - 2001-03-06<br>Applicant: IBM [US]<br>IPC: G06F17/30 |
| 10 | <b>Incremental backup system</b><br>Inventor: UEMURA JOSE; SAKAKURA TAKASHI<br>Applicant: MITSUBISHI ELECTRIC CORP (JP)   |

EC: G06F11/14A4B1M2

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Publication info: **GB2306022** - 1997-04-23

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**backup** in the title AND **processing** in the title or abstract

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- 1 **IP TELEPHONE WITH BACKUP PSTN LINE**  
 Inventor: BEYDA WILLIAM J; GHEORGHIU FLORIN      Applicant: SIEMENS COMMUNICATIONS INC [US]  
 EC:      IPC: H04M1/253; H04M7/00  
 Publication info: **WO2005027476** - 2005-03-24
- 2 **Backup system and method based on data characteristics**  
 Inventor: SAIKA NOBUYUKI [JP]      Applicant: HITACHI LTD [JP]  
 EC:      IPC: G06F17/30  
 Publication info: **US2005060356** - 2005-03-17
- 3 **Apparatus and method for processing a data backup service for use in a mobile terminal**  
 Inventor: SEO JEONG-WOOK [KR]; PARK WEI-JIN [KR]      Applicant:  
 EC:      IPC: G06F12/00  
 Publication info: **US2005050117** - 2005-03-03
- 4 **Primary-backup group with backup resources failover handler**  
 Inventor: MCDERMOTT MICHAEL JAMES [US]; MILLER ROBERT [US]; (+2)      Applicant: IBM [US]  
 EC:      IPC: G06F12/00  
 Publication info: **US2005021573** - 2005-01-27
- 5 **HARD DISK BACKUP RECOVERY SYSTEM, HARD DISK BACKUP RECOVERY METHOD AND INFORMATION PROCESSING DEVICE**  
 Inventor: KAWABATA YOICHI; KITAMIKADO MASANORI; (+1)      Applicant: MATSUSHITA ELECTRIC IND CO LTD  
 EC:      IPC: G06F12/00  
 Publication info: **JP2004362221** - 2004-12-24
- 6 **Migratable backup and restore**  
 Inventor: KATOH HIROSHI [JP]; MIYAMORI HIROKAZU [JP]; (+2)      Applicant: IBM [US]  
 EC:      IPC: H04L1/22  
 Publication info: **US2005010609** - 2005-01-13
- 7 **INFORMATION PROCESSING SYSTEM AND ITS BACKUP METHOD**  
 Inventor: YAMAZAKI YASUO      Applicant: HITACHI LTD  
 EC:      IPC: G06F3/06; G06F12/00  
 Publication info: **JP2004348193** - 2004-12-09
- 8 **BACKUP METHOD, RESTORATION METHOD, AND PROGRAM**  
 Inventor: MIYAMAE TAKESHI; SHINKAI YOSHITAKE      Applicant: FUJITSU LTD  
 EC:      IPC: G06F12/00; G06F3/06  
 Publication info: **JP2004334650** - 2004-11-25
- 9 **Method to perform a non-disruptive backup and data processing system therefor**  
 Inventor: BRUNO RICHARD [FR]; DENIS CHALON [FR]      Applicant: HEWLETT PACKARD DEVELOPMENT CO [US]  
 EC: G06F11/14A4B1M8      IPC: G06F11/14  
 Publication info: **EP1484680** - 2004-12-08
- 10 **BACKUP METHOD**  
 Inventor: NAGARE TAKAYUKI; IKEGAMI SHUICHI; (+1)      Applicant: NTT COMWARE CORP  
 EC:      IPC: G06F12/00

Publication info: **JP2004295363** - 2004-10-21

////////////////////////////////////  
Data supplied from the *esp@cenet* database - Worldwide

**RESULT LIST**

9 results found in the Worldwide database for:

**backup** in the title AND **metadata** in the title or abstract

(Results are sorted by date of upload in database)

- 1 Backup system and method based on data characteristics**  
 Inventor: SAIKA NOBUYUKI [JP]      Applicant: HITACHI LTD [JP]  
 EC:      IPC: G06F17/30  
 Publication info: **US2005060356** - 2005-03-17
- 2 Host-independent incremental backup method, apparatus, and system**  
 Inventor: COULTER ROBERT CLYDE [US]; MCKEAN      Applicant:  
 BRIAN DENNIS [US]  
 EC:      IPC: G06F12/16  
 Publication info: **US2004243775** - 2004-12-02
- 3 Backup and restore for heterogeneous file server environment**  
 Inventor: MUHLESTEIN MARK [US]      Applicant: NETWORK APPLIANCE INC A CORP [US]  
 EC: G06F11/14A4B1H      IPC: G06F17/00  
 Publication info: **US2004186844** - 2004-09-23
- 4 Backup and restore for heterogeneous file server environment**  
 Inventor: MUHLESTEIN MARK (US)      Applicant:  
 EC: G06F11/14A4B1H      IPC: G06F7/00  
 Publication info: **US2002059172** - 2002-05-16
- 5 METHOD FOR BACKUP AND RESTORE OF A MULTI-LINGUAL NETWORK FILE SERVER**  
 Inventor: DUNHAM SCOTT (US); FISKE RULIAN (US);      Applicant:  
 (+6)  
 EC:      IPC: G06F17/30; G06F12/00  
 Publication info: **US2002091710** - 2002-07-11
- 6 BACKUP AND RESTORE FOR HETEROGENEOUS FILE SERVER ENVIRONMENT**  
 Inventor: MUHLESTEIN MARK      Applicant: NETWORK APPLIANCE INC (US)  
 EC: G06F11/14A4B1H      IPC: G06F11/14  
 Publication info: **WO9966401** - 1999-12-23
- 7 Apparatus and method for differential backup and restoration of data in a computer storage system**  
 Inventor: OFEK YUVAL [US]; CAKELJIC ZORAN [US];      Applicant: EMC CORP [US]  
 (+1)  
 EC:      IPC: G06F12/00  
 Publication info: **US6397308** - 2002-05-28
- 8 Continuous availability and efficient backup for externally referenced objects**  
 Inventor: BURNS RANDAL CHILTON [US]; NARANG      Applicant: IBM [US]  
 INDERPAL SINGH [US]  
 EC:      IPC: G06F9/00  
 Publication info: **US6088694** - 2000-07-11
- 9 FILE BACKUP METHOD**  
 Inventor: UTSUNOMIYA NAOKI; SONODA KOJI; (+1)      Applicant: HITACHI LTD  
 EC:      IPC: G06F12/00  
 Publication info: **JP11120057** - 1999-04-30

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 Data supplied from the esp@cenet database - Worldwide



**RESULT LIST**

Approximately **202** results found in the Worldwide database for:  
**backup** in the title AND **access** in the title or abstract  
 (Results are sorted by date of upload in database)

- 1 **Systems and methods of information backup**  
 Inventor: VENKATASUBRAMANIAN KRISHNAN [US]      Applicant:  
 EC:      IPC: G06F15/173  
 Publication info: **US2005055444** - 2005-03-10
- 2 **Method for hot backup employing double machine and terminal device access system thereof**  
 Inventor: LIU FANGJIAN [CN]      Applicant: HUAWEI TECH CO LTD [CN]  
 EC:      IPC: G06F13/00; G06F15/16; (+5)  
 Publication info: **CN1485748** - 2004-03-31
- 3 **Join protocol for a primary-backup group with backup resources in clustered computer system**  
 Inventor: MILLER ROBERT [US]; THAYIB KISWANTO [US]      Applicant: IBM [US]  
 EC:      IPC: G06F12/00  
 Publication info: **US2005021574** - 2005-01-27
- 4 **System and method for the prevention of corruption of networked storage devices during backup data recovery**  
 Inventor: KELMAN DAVID S [US]      Applicant: DELL PRODUCTS LP [US]  
 EC:      IPC: H02H3/05  
 Publication info: **US2004260965** - 2004-12-23
- 5 **Wireless backup telephone device**  
 Inventor: CARDINA DONALD M [US]; LINK CHARLES M [US]      Applicant:  
 EC: H04B1/74; H04M3/54; (+1)      IPC: H04Q7/20  
 Publication info: **US2004214569** - 2004-10-28
- 6 **Automatic backup/recovery process**  
 Inventor: RICHARD BRUNO [FR]      Applicant: HEWLETT PACKARD CO [US]  
 EC:      IPC: H05K10/00; G06F12/00  
 Publication info: **US2004044707** - 2004-03-04
- 7 **Access control method and apparatus for a single hard disk with an automatic backup capability**  
 Inventor: CHANG YUAN-LUNG [TW]; CHANG YUAN-HUEI [TW]      Applicant: ETRUNK TECHNOLOGIES INC [US]  
 EC:      IPC: G06F3/00  
 Publication info: **US2004122998** - 2004-06-24
- 8 **Embedded controller for real-time backup of operation states of peripheral devices**  
 Inventor: PARK JIN-KWON [KR]      Applicant: SAMSUNG ELECTRONICS CO LTD [US]  
 EC:      IPC: H02H3/05  
 Publication info: **US2004039967** - 2004-02-26
- 9 **Storage system and data backup method for the same**  
 Inventor: KOBAYASHI NAOTAKA [JP]; YOKOHATA SHIZUO [JP]      Applicant: HITACHI LTD [JP]  
 EC:      IPC: G06F12/16  
 Publication info: **US2004128456** - 2004-07-01
- 10 **Storage control unit with a volatile cache and a non-volatile backup cache, for processing read and write requests**



Inventor: TANAKA RIE (JP); ISHIKAWA ATSUSHI (JP)    Applicant: HITACHI LTD (JP)

EC: G06F12/08B12; G06F12/08B22

IPC: G06F12/00

Publication info: **US2003084245** - 2003-05-01

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## WEST Search History





DATE: Friday, April 15, 2005

Hide?	Set Name	Query	Hit Count
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L28	L27 and (meta near5 data)	0
<input type="checkbox"/>	L27	L26 and (file\$1 same application\$1)	15
<input type="checkbox"/>	L26	(backup and application\$).ti.	66
<input type="checkbox"/>	L25	(backup and query\$).ti.	3
<input type="checkbox"/>	L24	(backup and copy\$ and query\$).ti.	1
<input type="checkbox"/>	L23	(backup and relational).ti.	1
<input type="checkbox"/>	L22	L21 and copy\$	5
<input type="checkbox"/>	L21	L20 and network\$	9
<input type="checkbox"/>	L20	L19 and storage	10
<input type="checkbox"/>	L19	(backup applications) same (data applications)	10
<input type="checkbox"/>	L18	(backup near5 applicatiions) and (data near5 applicatiions)	0
<input type="checkbox"/>	L17	(backup applicatiions) and (data applicatiions)	0
<input type="checkbox"/>	L16	(backup applicatiions) same (data applicatiions)	0
<input type="checkbox"/>	L15	L14 and metadata	1
<input type="checkbox"/>	L14	L13 and (file\$1 same applications)	17
<input type="checkbox"/>	L13	(backup near5 data\$) same (query\$ near5 file\$1)	18
<input type="checkbox"/>	L12	L11 and (copy\$ near5 locat\$)	6
<input type="checkbox"/>	L11	L10 and (meta near5 data)	36
<input type="checkbox"/>	L10	(BACKUP NEAR5 DATA\$) SAME (backup near5 application\$1)	879
<input type="checkbox"/>	L9	L8 and (file\$1 or record\$1)	3
<input type="checkbox"/>	L8	(backup and query\$).ti.	3
<input type="checkbox"/>	L7	'backup applications'.ti.	11
<input type="checkbox"/>	L6	6513051 .uref.	1
<input type="checkbox"/>	L5	L4 and (metadata near5 file\$1)	6
<input type="checkbox"/>	L4	'backup applications'.ab,clm.	86
<input type="checkbox"/>	L3	L2 and (query\$ near5 data)	2
<input type="checkbox"/>	L2	L1 and (copy\$ near5 file\$1)	10
<input type="checkbox"/>	L1	(backup near5 operat\$) same (application\$1 near5 data\$)	36

END OF SEARCH HISTORY

# Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 6741896 B1

Using default format because multiple data bases are involved.

L7: Entry 1 of 11

File: USPT

May 25, 2004

US-PAT-NO: 6741896

DOCUMENT-IDENTIFIER: US 6741896 B1

TITLE: Power backup application to maintain normal flight recorder operation for a specified period of time in case of aircraft power failure or interruption

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Olzak; Richard	Kirkland	WA		
Schofield; Duncan	Bellevue	WA		
Kersten; Gary	Duvall	WA		

US-CL-CURRENT: 700/82; 307/66, 320/134, 700/286, 701/14

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KBAC	Draw Ds
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☐ 2. Document ID: US 6820214 B1

L7: Entry 2 of 11

File: DWPI

Nov 16, 2004

DERWENT-ACC-NO: 2004-830947

DERWENT-WEEK: 200482

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TITLE: Critical use computer system e.g. file server, invokes backup application programming interface of software using backup program and stores software execution state retrieved using backup program

INVENTOR: CABRERA, L F; RAGHAVAN, K N ; THOMPSON, G A

PRIORITY-DATA: 1999US-0360542 (July 26, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6820214 B1</u>	November 16, 2004		018	G06F011/00

INT-CL (IPC): G06 F 11/00

h e b b g e e f e ef b e

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 3. Document ID: JP 2004095139 A

L7: Entry 3 of 11

File: DWPI

Mar 25, 2004

DERWENT-ACC-NO: 2004-255110

DERWENT-WEEK: 200424

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TITLE: Tape cartridge used for data backup application, has tape guide which avoids contact of magnetic tape with opening when tape is led out

PRIORITY-DATA: 2002JP-0198797 (July 8, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2004095139 A</u>	March 25, 2004		014	G11B023/107

INT-CL (IPC): G11 B 23/107

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 4. Document ID: BR 200310063 A, WO 2004023262 A2, US 20040136224 A1, AU 2003263093 A1

L7: Entry 4 of 11

File: DWPI

Feb 15, 2005

DERWENT-ACC-NO: 2004-269637

DERWENT-WEEK: 200517

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TITLE: Data storage apparatus for launching backup application, has circuitry coupled to disk drive causing backup of some data from disk drive of host computer to external disk drive based on press of user-activated button

INVENTOR: HAMER, J; LIN, J ; MCGRATH, J ; WEBSTER, M ; WEIHER, P

PRIORITY-DATA: 2002US-408690P (September 6, 2002), 2003US-0656896 (September 5, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>BR 200310063 A</u>	February 15, 2005		000	G06F003/00
<u>WO 2004023262 A2</u>	March 18, 2004	E	041	G06F000/00
<u>US 20040136224 A1</u>	July 15, 2004		000	G11C011/22
<u>AU 2003263093 A1</u>	March 29, 2004		000	G06F000/00

INT-CL (IPC): G06 F 0/00; G06 F 3/00; G06 F 12/00; G11 C 11/22

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 5. Document ID: US 20030177411 A1

L7: Entry 5 of 11

File: DWPI

Sep 18, 2003

DERWENT-ACC-NO: 2003-830856

DERWENT-WEEK: 200377

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Backup application server computer for use with application server cluster, has CPU that executes program instructions stored in memory to promote backup application server to primary application server role in response cluster failure

INVENTOR: DINKER, D; GOPINATH, P ; NADIPALLI, S R ; TONSE, S

PRIORITY-DATA: 2002US-0096067 (March 12, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20030177411 A1</u>	September 18, 2003		020	H04L001/22

INT-CL (IPC): H04 L 1/22

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw De
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☐ 6. Document ID: US 6789164 B2, US 20030177304 A1

L7: Entry 6 of 11

File: DWPI

Sep 7, 2004

DERWENT-ACC-NO: 2003-746988

DERWENT-WEEK: 200459

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Data writing method in optical disk for data backup applications, involves writing data in disk fold created in real time, after correctly loading universal format disk in drive and connecting flash memory to controller

INVENTOR: FOO, T J; SU, S

PRIORITY-DATA: 2002US-0096933 (March 14, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6789164 B2</u>	September 7, 2004		000	G06F012/00
<u>US 20030177304 A1</u>	September 18, 2003		005	G06F012/00

INT-CL (IPC): G06 F 12/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NUMC	Draw De
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☐ 7. Document ID: US 6622261 B1

L7: Entry 7 of 11

File: DWPI

Sep 16, 2003

DERWENT-ACC-NO: 2003-776282

DERWENT-WEEK: 200373

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TITLE: Process-pair protection apparatus for computer system used in telephone switching system, has backup process-pair manager to manage backup application that replaces primary application, during failure of primary application

INVENTOR: DAVIDSON, T J; DE LEON, I ; GORDON, G W ; JONES, J A ; LARANJEIRA, L A ; SANDERSON, S M ; TIEN, Y S ; YOUNG, C

PRIORITY-DATA: 1998US-081205P (April 9, 1998), 1999US-0287329 (April 7, 1999), 2002US-0210904 (August 1, 2002)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6622261 B1</u>	September 16, 2003		014	G06F011/00

INT-CL (IPC): G06 F 11/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWNC	Draw D
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☐ 8. Document ID: JP 2003150326 A

L7: Entry 8 of 11

File: DWPI

May 23, 2003

DERWENT-ACC-NO: 2003-435973

DERWENT-WEEK: 200341

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TITLE: Memory disk control method for backup applications, involves storing event information about input-output transfer monitored between master-side disk and higher-order apparatus, in slave-side disk using same data bus

PRIORITY-DATA: 2001JP-0349525 (November 15, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2003150326 A</u>	May 23, 2003		009	G06F003/06

INT-CL (IPC): G06 F 3/06; G06 F 12/16

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWNC	Draw D
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☐ 9. Document ID: JP 2003085931 A

L7: Entry 9 of 11

File: DWPI

Mar 20, 2003

DERWENT-ACC-NO: 2003-385832

DERWENT-WEEK: 200337

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TITLE: Tape hub for magnetic tape cassette used for computer backup applications, has multilayered resin portion provided along periphery of metal core

PRIORITY-DATA: 2001JP-0273886 (September 10, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2003085931 A	March 20, 2003		007	G11B023/087

INT-CL (IPC): G11 B 23/087

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw De
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☐ 10. Document ID: US 20040073681 A1, WO 200235355 A1, AU 200210408 A, EP 1370942 A1

L7: Entry 10 of 11

File: DWPI

Apr 15, 2004

DERWENT-ACC-NO: 2002-508038

DERWENT-WEEK: 200426

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TITLE: Simultaneous data file transmission method involves establishing simultaneous data communicating connection between backup application agent and backup managing unit

INVENTOR: FALD, F D

PRIORITY-DATA: 2001DK-0000085 (March 20, 2001), 2000DK-0000042 (October 25, 2000), 2000DK-0000042 (October 25, 2000), 2001DK-0000085 (March 20, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20040073681 A1	April 15, 2004		000	G06F015/16
WO 200235355 A1	May 2, 2002	E	038	G06F011/14
AU 200210408 A	May 6, 2002		000	G06F011/14
EP 1370942 A1	December 17, 2003	E	000	G06F011/14

INT-CL (IPC): G06 F 11/14; G06 F 15/16; G06 F 15/173

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw De
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☐ 11. Document ID: US 6341341 B1

L7: Entry 11 of 11

File: DWPI

Jan 22, 2002

DERWENT-ACC-NO: 2002-187436

DERWENT-WEEK: 200224

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TITLE: Data backup system for computer, stores real-time copy of snapshot data, based on the backup application and uses bitmap to store original read-write data in output storage blocks

INVENTOR: FRANKLIN, C R; GRUMMON, J L

PRIORITY-DATA: 1999US-0465354 (December 16, 1999)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6341341 B1	January 22, 2002		009	G06F012/16

INT-CL (IPC): G06 F 12/16

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
"BACKUP APPLICATIONS"	0
"BACKUP APPLICATIONS". TI..PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11
('BACKUP APPLICATIONS'. TI.)..PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11

Display Format:  [Previous Page](#)[Next Page](#)[Go to Doc#](#)



# Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: RD 430120 A

Using default format because multiple data bases are involved.

L9: Entry 1 of 3

File: DWPI

Feb 10, 2000

DERWENT-ACC-NO: 2000-291138

DERWENT-WEEK: 200025

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TITLE: Data backup method for reconciling file system to point in time using incremental backup data stored on storage management server involves reconciling query to identify file system changes made between from Date and to Date

PRIORITY-DATA: 2000RD-0430120 (January 20, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
RD 430120 A	February 10, 2000		002	G06F000/00

INT-CL (IPC): G06 F 0/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 2. Document ID: RD 428094 A

L9: Entry 2 of 3

File: DWPI

Dec 10, 1999

DERWENT-ACC-NO: 2000-541493

DERWENT-WEEK: 200049

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TITLE: Information system developers automatic back-up system for HTML-based help system; starts each backup thread by querying the user machine to retrieve listing of all files in directory specified in server's backup record

PRIORITY-DATA: 1999RD-0428094 (November 20, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
RD 428094 A	December 10, 1999		002	G06F000/00

INT-CL (IPC): G06 F 0/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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3. Document ID: US 5241669 A, US 37364 E, EP 566964 A2, EP 566964 A3, EP 566964 B1, DE 69312781 E

L9: Entry 3 of 3

File: DWPI

Aug 31, 1993

DERWENT-ACC-NO: 1993-287994

DERWENT-WEEK: 200154

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TITLE: Sidefile status polling method in time zero backup copy process - involves periodically appending side file status query to dat retrieval command sequency and selectively accessing and copying sidefiles in response to determination of data presence within sub system memory

INVENTOR: COHN, O; HARTUNG, M H ; MCCAULEY, J N ; MICKA, W F ; MIKKELSEN, C W ; NAGIN, K M ; NOVICK, Y ; WINOKUR, A

PRIORITY-DATA: 1992US-0871786 (April 20, 1992), 1995US-0521712 (August 31, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5241669 A	August 31, 1993		012	G06F011/00
US 37364 E	September 11, 2001		000	G06F011/00
EP 566964 A2	October 27, 1993	E	014	G06F011/14
EP 566964 A3	March 8, 1995		000	G06F011/00
EP 566964 B1	August 6, 1997	E	015	G06F011/14
DE 69312781 E	September 11, 1997		000	G06F011/14

INT-CL (IPC): G06 F 11/00; G06 F 11/14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMCC	Draw De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
FILE\$1	0
FILE	1029003
FILEA	5694
FILEB	418
FILEC	874
FILED	3798925
FILEE	1028
FILEF	127
FILEG	104
FILEH	23
(L8 AND (FILE\$1 OR	3

RECORD\$1) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

[There are more results than shown above. Click here to view the entire set.](#)

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Clear

Generate Collection

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Fwd Refs

Bkwd Refs

Generate OACS

## Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6611923 B1

Using default format because multiple data bases are involved.

L3: Entry 1 of 2

File: USPT

Aug 26, 2003

US-PAT-NO: 6611923

DOCUMENT-IDENTIFIER: US 6611923 B1

TITLE: System and method for backing up data stored in multiple mirrors on a mass storage subsystem under control of a backup server

DATE-ISSUED: August 26, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mutalik; Madhav	Northboro	MA	01532	
Deshayes; John	Hopkinton	MA	01748	
Pillai; Ananthan	Brookline	MA	02146	
Shekhar; Ajay	Norwood	MA	02062	

US-CL-CURRENT: 714/4; 707/10, 707/204, 709/213, 709/229

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KM/C	Draw D
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☐ 2. Document ID: US 6505216 B1

L3: Entry 2 of 2

File: USPT

Jan 7, 2003

US-PAT-NO: 6505216

DOCUMENT-IDENTIFIER: US 6505216 B1

TITLE: Methods and apparatus for backing-up and restoring files using multiple trails

DATE-ISSUED: January 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schutzman; Neil F.	Marlborough	MA		
Swaddipong; Pichai	Brookline	MA		

US-CL-CURRENT: 707/204; 707/202, 711/162

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
DATA	3290360
DATUM	33843
QUERY\$	0
QUERY	71100
QUERYA	1
QUERYAA	1
QUERYABILITY	4
QUERYABLE	233
QUERYABLECOLLECTION	5
"QUERYABLECOLLECTION.JAVA"	5
QUERYABLE/SELECTABLE	2
(L2 AND (QUERY\$ NEAR5 DATA) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

There are more results than shown above. [Click here to view the entire set.](#)

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[Generate OACS](#)

Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20050081099 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 6

File: PGPB

Apr 14, 2005

PGPUB-DOCUMENT-NUMBER: 20050081099

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050081099 A1

TITLE: Method and apparatus for ensuring valid journaled file system metadata during a backup operation

PUBLICATION-DATE: April 14, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chang, Joon	Austin	TX	US	
Grubbs, Mark Allen	Round Rock	TX	US	
McBrearty, Gerald Francis	Austin	TX	US	
Neuman, Grover Herbert	Austin	TX	US	

US-CL-CURRENT: 714/15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 2. Document ID: US 20050021566 A1

L5: Entry 2 of 6

File: PGPB

Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021566

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050021566 A1

TITLE: Techniques for facilitating backup and restore of migrated files

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mu, Yuedong	San Jose	CA	US	

US-CL-CURRENT: 707/200

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Da
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☐ 3. Document ID: US 20040236916 A1

L5: Entry 3 of 6

File: PGPB

Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040236916

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040236916 A1

TITLE: System and method for backing up and restoring data

PUBLICATION-DATE: November 25, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Berkowitz, Brian	Seattle	WA	US	
Golds, David	Redmond	WA	US	
Johnson, Michael Christopher	Bothell	WA	US	
Olsson, Steven E.	Camano Island	WA	US	
Van Ingen, Catharine	Bellevue	WA	US	

US-CL-CURRENT: 711/162; 707/204, 711/147

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Da
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☐ 4. Document ID: US 20040143609 A1

L5: Entry 4 of 6

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040143609

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040143609 A1

TITLE: System and method for data extraction in a non-native environment

PUBLICATION-DATE: July 22, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gardner, Daniel John	St. Louis Park	MN	US	
Seel, Mark Anthony	Roseville	MN	US	

US-CL-CURRENT: 707/204

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Da
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☐ 5. Document ID: US 20030028736 A1

L5: Entry 5 of 6

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030028736

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030028736 A1

TITLE: System and method for backing up and restoring data

PUBLICATION-DATE: February 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Berkowitz, Brian	Seattle	WA	US	
Golds, David	Redmond	WA	US	
Johnson, Michael Christopher	Bothell	WA	US	
Olsson, Steven E.	Camano Island	WA	US	
Ingen, Catharine Van	Bellevue	WA	US	

US-CL-CURRENT: 711/162

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw D
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☐ 6. Document ID: US 6513051 B1

L5: Entry 6 of 6

File: USPT

Jan 28, 2003

US-PAT-NO: 6513051

DOCUMENT-IDENTIFIER: US 6513051 B1

TITLE: Method and system for backing up and restoring files stored in a single instance store

DATE-ISSUED: January 28, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bolosky; William J.	Issaquah	WA		
Cutshall; Scott M.	Carnation	WA		

US-CL-CURRENT: 707/204; 707/101, 707/102, 707/200, 707/201, 707/205, 711/161, 711/162

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
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METADATA	9959
METADATUM	7
FILE\$1	0
FILE	291600
FILEA	41
FILEB	23
FILEC	15
FILED	1091781
FILEE	13
FILEF	5
FILEG	3
(L4 AND (METADATA NEAR5 FILE\$1) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	6

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20040260973 A1

Using default format because multiple data bases are involved.

L12: Entry 1 of 6

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040260973

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040260973 A1

TITLE: Method and system for reciprocal data backup

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Michelman, Eric	Bellevue	WA	US	

US-CL-CURRENT: 714/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RUOC	Draw Ds
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☐ 2. Document ID: US 20040153739 A1

L12: Entry 2 of 6

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040153739

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040153739 A1

TITLE: Method and system for creating and using removable disk based copies of backup data

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Trimmer, Don Alvin	Livermore	CA	US	
Stager, Roger Keith	Livermore	CA	US	

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Johnston, Craig Anthony	Livermore	CA	US
Chang, Yafen Peggy	Fremont	CA	US
Blaser, Rico	San Francisco	CA	US

US-CL-CURRENT: 714/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNAC	Draw D
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☐ 3. Document ID: US 20030140273 A1

L12: Entry 3 of 6

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030140273  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030140273 A1

TITLE: Method and apparatus for fault tolerant persistency service on network device

PUBLICATION-DATE: July 24, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kamalvanshi, Ajay	San Jose	CA	US	
Grandhi, Madhu	Fremont	CA	US	

US-CL-CURRENT: 714/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNAC	Draw D
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☐ 4. Document ID: US 20020178173 A1

L12: Entry 4 of 6

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020178173  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020178173 A1

TITLE: Method and apparatus for performing the identification of files to be backed up using relational meta data

PUBLICATION-DATE: November 28, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chefalas, Thomas E.	Somers	NY	US	
Mastrianni, Steven J.	Unionville	CT	US	

US-CL-CURRENT: 707/200

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 5. Document ID: US 6865655 B1

L12: Entry 5 of 6

File: USPT

Mar 8, 2005

US-PAT-NO: 6865655

DOCUMENT-IDENTIFIER: US 6865655 B1

TITLE: Methods and apparatus for backing up and restoring data portions stored in client computer systems

DATE-ISSUED: March 8, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Andersen; Bryon Scott	Acton	MA		

US-CL-CURRENT: 711/162; 707/202, 707/203, 707/204, 711/161, 714/15, 714/2, 714/6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 6. Document ID: US 5403639 A

L12: Entry 6 of 6

File: USPT

Apr 4, 1995

US-PAT-NO: 5403639

DOCUMENT-IDENTIFIER: US 5403639 A

TITLE: File server having snapshot application data groups

DATE-ISSUED: April 4, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Belsan; Jay S.	Nederland	CO		
Laughlin; Jeffrey S.	Nederland	CO		
Pedersen; Mogens H.	Longmont	CO		
Raicer; Robert J.	Niwot	CO		
Rudeseal; George A.	Boulder	CO		
Schafer; Charles P.	Louisville	CO		
Steele; Barbara L.	Boulder	CO		
Tomsula; Patrick J.	Arvada	CO		

US-CL-CURRENT: 707/204; 707/205, 711/113,

## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20050021566 A1

Using default format because multiple data bases are involved.

L15: Entry 1 of 1

File: PGPB

Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050021566

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050021566 A1

TITLE: Techniques for facilitating backup and restore of migrated files

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mu, Yuedong	San Jose	CA	US	

US-CL-CURRENT: 707/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RUAC	Drawn De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
METADATA	9959
METADATUM	7
(14 AND METADATA).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
(L14 AND METADATA ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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Generate OACS

**Search Results - Record(s) 1 through 5 of 5 returned.**☐ 1. Document ID: US 20020178173 A1

Using default format because multiple data bases are involved.

L22: Entry 1 of 5

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020178173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020178173 A1

TITLE: Method and apparatus for performing the identification of files to be backed up using relational meta data

PUBLICATION-DATE: November 28, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chefalas, Thomas E.	Somers	NY	US	
Mastrianni, Steven J.	Unionville	CT	US	

US-CL-CURRENT: 707/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 6760823 B1

L22: Entry 2 of 5

File: USPT

Jul 6, 2004

US-PAT-NO: 6760823

DOCUMENT-IDENTIFIER: US 6760823 B1

TITLE: File mapping system and related techniques

DATE-ISSUED: July 6, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schutzman; Neil F.	Marlborough	MA		

US-CL-CURRENT: 711/162; 707/204

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 3. Document ID: US 6578121 B1

L22: Entry 3 of 5

File: USPT

Jun 10, 2003

US-PAT-NO: 6578121

DOCUMENT-IDENTIFIER: US 6578121 B1

\*\* See image for Certificate of Correction \*\*

TITLE: File mapping system and related techniques

DATE-ISSUED: June 10, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schutzman; Neil F.	Marlborough	MA		

US-CL-CURRENT: 711/162; 707/204

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 4. Document ID: US 6047307 A

L22: Entry 4 of 5

File: USPT

Apr 4, 2000

US-PAT-NO: 6047307

DOCUMENT-IDENTIFIER: US 6047307 A

TITLE: Providing application programs with unmediated access to a contested hardware resource

DATE-ISSUED: April 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Radko; Ronald O.	Bellevue	WA		

US-CL-CURRENT: 718/100; 718/104

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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## Hit List

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Fwd Refs

Bkwd Refs

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**Search Results - Record(s) 1 through 15 of 15 returned.**☐ 1. Document ID: US 20040107199 A1

Using default format because multiple data bases are involved.

L27: Entry 1 of 15

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040107199

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040107199 A1

TITLE: Computer application backup method and system

PUBLICATION-DATE: June 3, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dalrymple, Philip W. III	Acworth	GA	US	
Gargan, Robert A. JR.	Alpharetta	GA	US	
Hennessy, Daniel N.	Monroeville	PA	US	

US-CL-CURRENT: 707/100

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWRC	Draws
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☐ 2. Document ID: US 20020120791 A1

L27: Entry 2 of 15

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020120791

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020120791 A1

TITLE: Application independent write monitoring method for fast backup and synchronization of open files

PUBLICATION-DATE: August 29, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Somalwar, Kiran	Pleasanton	NJ	US	
Sinha, Dinesh	North Brunswick	NJ	US	

US-CL-CURRENT: 719/330

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Da
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☐ 3. Document ID: US 20020120785 A1

L27: Entry 3 of 15

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020120785

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020120785 A1

TITLE: Application independent write monitoring method for fast backup and  
synchronization of files

PUBLICATION-DATE: August 29, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Somalwar, Kiran	Pleasanton	NJ	US	
Sinha, Dinesh	North Brunswick	NJ	US	

US-CL-CURRENT: 719/310; 707/204, 707/9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Da
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☐ 4. Document ID: US 6847983 B2

L27: Entry 4 of 15

File: USPT

Jan 25, 2005

US-PAT-NO: 6847983

DOCUMENT-IDENTIFIER: US 6847983 B2

TITLE: Application independent write monitoring method for fast backup and  
synchronization of open files

DATE-ISSUED: January 25, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Somalwar, Kiran	Pleasanton	NJ	94588	
Sinha, Dinesh	North Brunswick	NJ	08902	

US-CL-CURRENT: 707/203; 707/9, 715/511

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Da
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☐ 5. Document ID: US 6741896 B1

L27: Entry 5 of 15

File: USPT

May 25, 2004

US-PAT-NO: 6741896

DOCUMENT-IDENTIFIER: US 6741896 B1

TITLE: Power backup application to maintain normal flight recorder operation for a specified period of time in case of aircraft power failure or interruption

DATE-ISSUED: May 25, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Olzak; Richard	Kirkland	WA		
Schofield; Duncan	Bellevue	WA		
Kersten; Gary	Duvall	WA		

US-CL-CURRENT: 700/82; 307/66, 320/134, 700/286, 701/14

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 6. Document ID: US 6820214 B1

L27: Entry 6 of 15

File: DWPI

Nov 16, 2004

DERWENT-ACC-NO: 2004-830947

DERWENT-WEEK: 200482

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TITLE: Critical use computer system e.g. file server, invokes backup application programming interface of software using backup program and stores software execution state retrieved using backup program

INVENTOR: CABRERA, L F; RAGHAVAN, K N ; THOMPSON, G A

PRIORITY-DATA: 1999US-0360542 (July 26, 1999)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6820214 B1</u>	November 16, 2004		018	G06F011/00

INT-CL (IPC): G06 F 11/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 7. Document ID: US 20040193953 A1

L27: Entry 7 of 15

File: DWPI

Sep 30, 2004

DERWENT-ACC-NO: 2004-718130

DERWENT-WEEK: 200470

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TITLE: Configuration setting maintainence method of application on computer system, involves storing configuration settings indicated to backup for one of applications, in backup archive file

INVENTOR: CALLAHAN, T L; MULLEN, A J ; THOMAS, D J

PRIORITY-DATA: 2003US-0370942 (February 21, 2003)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20040193953 A1</u>	September 30, 2004		015	H02H003/05

INT-CL (IPC): H02 H 3/05

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw De
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☐ 8. Document ID: JP 2004206611 A

L27: Entry 8 of 15

File: DWPI

Jul 22, 2004

DERWENT-ACC-NO: 2004-523253

DERWENT-WEEK: 200450

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Backup system for computer system used for business use and financial application, calculates estimation value of change in backup data amount and backup time, based on backup data amount and backup time stored by log management unit

PRIORITY-DATA: 2002JP-0377683 (December 26, 2002)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2004206611 A</u>	July 22, 2004		015	G06F012/00

INT-CL (IPC): G06 F 12/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw De
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☐ 9. Document ID: US 20040107199 A1

L27: Entry 9 of 15

File: DWPI

Jun 3, 2004

DERWENT-ACC-NO: 2004-467360

DERWENT-WEEK: 200444

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Application program backing up and restoring method for networked computer system, involves creating update application program and its backup in response to change detected in file associated with application program

INVENTOR: DALRYMPLE, P W; GARGAN, R A ; HENNESSY, D N

PRIORITY-DATA: 2002US-405276P (August 22, 2002), 2003US-0624200 (July 22, 2003)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20040107199 A1</u>	June 3, 2004		012	G06F017/00

INT-CL (IPC): G06 F 17/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 10. Document ID: JP 2003162434 A

L27: Entry 10 of 15

File: DWPI

Jun 6, 2003

DERWENT-ACC-NO: 2003-487977

DERWENT-WEEK: 200346

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TITLE: Application file deletion system used in local area network, transfers detected backup data file to hard disk, in response to file preservation request from specific module

PRIORITY-DATA: 2001JP-0362520 (November 28, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2003162434 A</u>	June 6, 2003		009	G06F012/00

INT-CL (IPC): G06 F 12/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 11. Document ID: US 20040073681 A1, WO 200235355 A1, AU 200210408 A, EP 1370942 A1

L27: Entry 11 of 15

File: DWPI

Apr 15, 2004

DERWENT-ACC-NO: 2002-508038

DERWENT-WEEK: 200426

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TITLE: Simultaneous data file transmission method involves establishing simultaneous data communicating connection between backup application agent and backup managing unit

INVENTOR: FALD, F D

PRIORITY-DATA: 2001DK-0000085 (March 20, 2001), 2000DK-0000042 (October 25, 2000), 2000DK-0000042 (October 25, 2000), 2001DK-0000085 (March 20, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20040073681 A1</u>	April 15, 2004		000	G06F015/16
<u>WO 200235355 A1</u>	May 2, 2002	E	038	G06F011/14
<u>AU 200210408 A</u>	May 6, 2002		000	G06F011/14
<u>EP 1370942 A1</u>	December 17, 2003	E	000	G06F011/14

INT-CL (IPC): G06 F 11/14; G06 F 15/16; G06 F 15/173

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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12. Document ID: CN 1452737 A, WO 200182082 A1, AU 200054655 A, EP 1277113 A1, JP 2003532190 W

L27: Entry 12 of 15

File: DWPI

Oct 29, 2003

DERWENT-ACC-NO: 2001-663267

DERWENT-WEEK: 200409

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TITLE: Application dependency information utilization for backup service, involves registering applications with application dependency API for communicating information among applications, software agent and backup service

INVENTOR: CABRERA, L F; GOLDICK, J S ; OLTEAN, P

PRIORITY-DATA: 2000US-0557250 (April 24, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>CN 1452737 A</u>	October 29, 2003		000	G06F011/14
<u>WO 200182082 A1</u>	November 1, 2001	E	033	G06F011/14
<u>AU 200054655 A</u>	November 7, 2001		000	G06F011/14
<u>EP 1277113 A1</u>	January 22, 2003	E	000	G06F011/14
<u>JP 2003532190 W</u>	October 28, 2003		036	G06F012/00

INT-CL (IPC): G06 F 9/445; G06 F 11/14; G06 F 12/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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13. Document ID: US 6195695 B1

L27: Entry 13 of 15

File: DWPI

Feb 27, 2001

DERWENT-ACC-NO: 2001-342039

DERWENT-WEEK: 200136

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TITLE: Data processing method in workstation or personal computer, involves storing backup copy of executable application in divided area of client computer memory

INVENTOR: CHESTON, R W; LOCKER, H ; RHOADES, D B

PRIORITY-DATA: 1998US-0181138 (October 27, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6195695 B1</u>	February 27, 2001		008	G06F015/177

INT-CL (IPC): G06 F 15/177

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 14. Document ID: JP 2001027963 A

L27: Entry 14 of 15

File: DWPI

Jan 30, 2001

DERWENT-ACC-NO: 2001-199230

DERWENT-WEEK: 200120

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TITLE: File encryption backup for personal computer connected to LAN, involves computing value of common key encryption function used for data storage based on application software using encryption key stored in IC card

PRIORITY-DATA: 1999JP-0201911 (July 15, 1999)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2001027963 A	January 30, 2001		011	G06F012/00

INT-CL (IPC): G06 F 3/06; G06 F 12/00; G06 F 12/14; G06 K 19/10; G09 C 1/00; H04 L 9/10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 15. Document ID: JP 07239757 A

L27: Entry 15 of 15

File: DWPI

Sep 12, 1995

DERWENT-ACC-NO: 2003-545178

DERWENT-WEEK: 200352

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TITLE: Business data file backup system for magnetic disk drive, has copying unit to generate backup business data file in response to access error detected when business data file is accessed by application program

PRIORITY-DATA: 1994JP-0054753 (February 28, 1994)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 07239757 A	September 12, 1995		008	G06F003/06

INT-CL (IPC): G06 F 3/06; G06 F 12/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Term	Documents
FILE\$1	0

FILE	1029003
FILEA	5694
FILEB	418
FILEC	874
FILED	3798925
FILEE	1028
FILEF	127
FILEG	104
FILEH	23
(L26 AND (FILE\$1 SAME APPLICATION\$1) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	15

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